FUJIFILM

digital
Tools for the imagination.

xD-Picture Card™

Exif Print

PictBridge

Designed for
Microsoft® Windows® XP

SUPER CCD

1 Getting Ready

2 Using the Camera

3 Advanced Features

4 Settings

5 Software Installation

6 Viewing Images

DIGITAL CAMERA

FinePix Z1

OWNER'S MANUAL

This manual will show you how to use your FUJIFILM DIGITAL CAMERA FinePix Z1 correctly. Please follow the instructions carefully.

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BL00456-200(1) E

WARNINGS

To reduce the risk of fire or electric shock, do not expose the AC power adapter to rain or moisture. The AC power adapter should not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the AC power adapter.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personal.
  Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

IMPORTANT

Be sure to read this page before using the Software.

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    This Agreement shall be governed by and construed in accordance with laws of Japan.

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Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For customers in the U.S.A.

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

Notes on the Grant:
To comply with Part 15 of the FCC rules, this product must be used with a Fujifilm-specified ferrite-core A/V cable, USB cable and DC supply cord.

For customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

Please read the Safety Notes (➡P.108) and make sure you understand them before using the camera.

EC Declaration of Conformity

We
Name: Fuji Photo Film (Europe) G.m.b.H.
Address: Heesenstrasse 31
40549 Dusseldorf, Germany

declare that the product
Product Name: FUJIFILM DIGITAL CAMERA FinePix Z1
Manufacture's Name: Fuji Photo Film Co., Ltd.
Manufacture's Address: 26-30, Nishiazabu 2-chome, Minato-ku,
Tokyo 106-8620, Japan

is in conformity with the following Standards
Safety: EN60065
EMC: EN55022: 1998 Classe B
EN55024: 1998
EN61000-3-2: 1995 + A1: 1998 + A2: 1998

following the provision of the EMC Directive (89/336/EEC, 92/31/EEC and 93/68/EEC) and Low Voltage Directive (73/23/EEC).

CE

Dusseldorf, Germany	April 1, 2005	
Place	Date	Signature/Managing Director

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA

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Preface

■ Test Shots Prior to Photography
For important photographs (such as weddings and overseas trips), always take a test shot and view the image to make sure that the camera is working normally.
- Fuji Photo Film Co., Ltd. cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright
Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of **xD-Picture Card** containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Liquid Crystal
If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.
- If liquid crystal comes in contact with your skin
  Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye
  Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed
  Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

■ Notes on Electrical Interference
If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

■ Handling Your Digital Camera
This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

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- IBM PC/AT is a registered trademark of International Business Machines Corp. of the U.S.A.
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- Microsoft, Windows, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. Windows is an abbreviated term referring to the Microsoft® Windows® Operating System.

✻ The “Designed for Microsoft® Windows® XP” logo refers to the camera and the driver only.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Explanation of Color Television System
NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.
PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

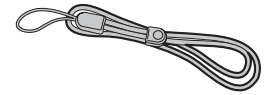
■ Exif Print (Exif ver. 2.2)
Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

Accessories included

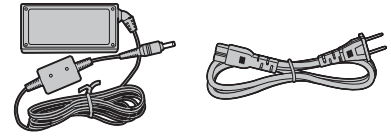
- **NP-40 Rechargeable Battery (1)**
  Soft case included

- **16 MB, xD-Picture Card™ (1)**
  Anti-static case (1) included

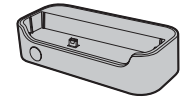
- **Strap (1)**



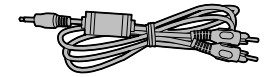
- **AC Power Adapter AC-5VW (1 set)**



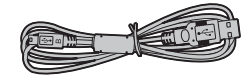
- **PictureCradle (1)**



- **A/V cable**
  Approx. 1.2 m (3.9 ft.), plug (2.5 mm dia.) to pin-plug ×2



- **USB cable (mini-B) (1)**



- **CD-ROM (1)**
  Software for FinePix CX

- **Owner’s Manual (this manual) (1)**

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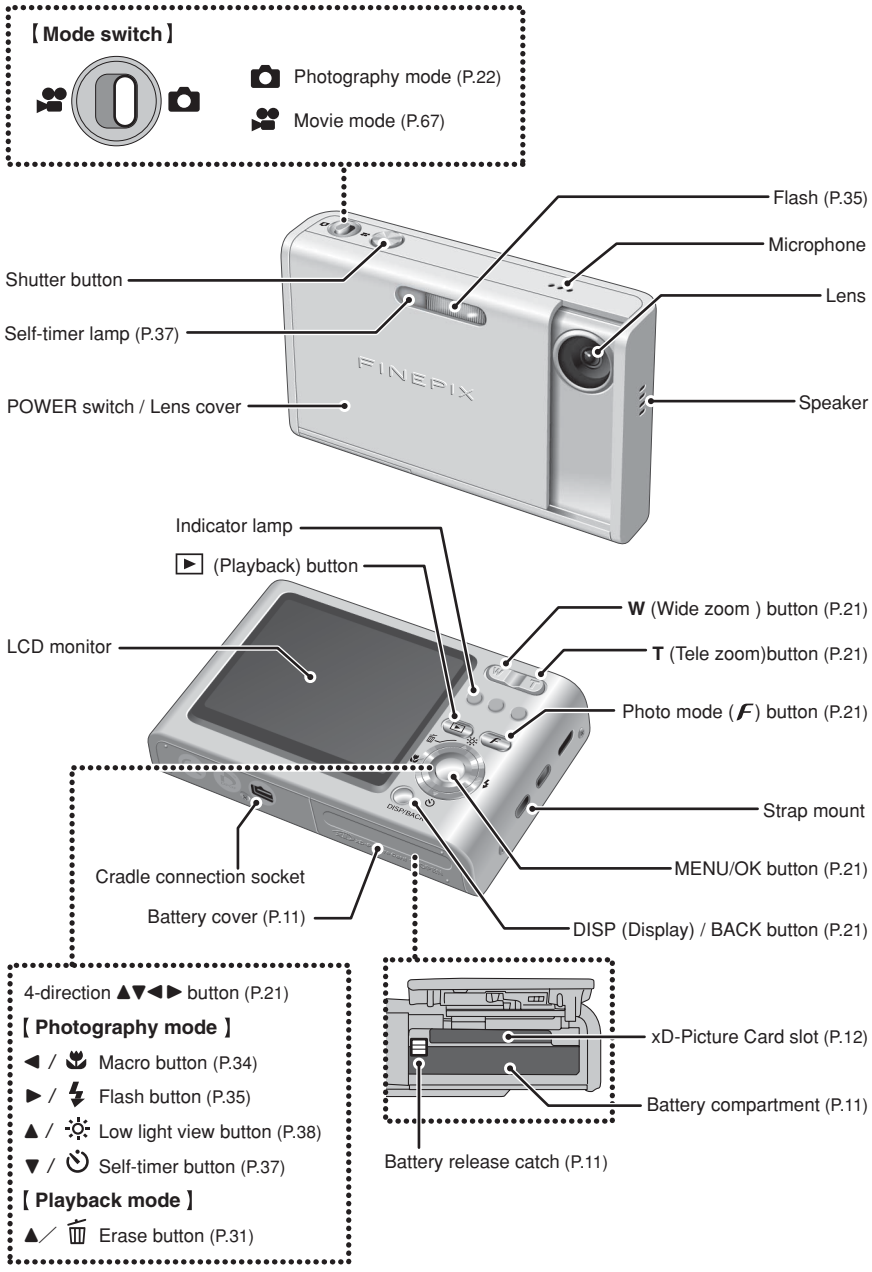
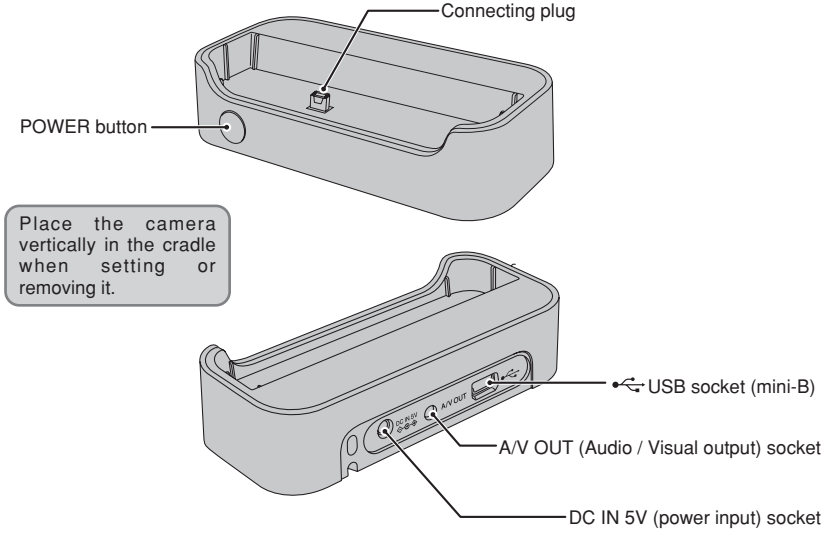
Camera parts and features

✻ Refer to the pages in parentheses for information on using the camera parts or features.




Connecting plug
POWER button
Place the camera vertically in the cradle when setting or removing it.
USB socket (mini-B)
A/V OUT (Audio / Visual output) socket
DC IN 5V (power input) socket

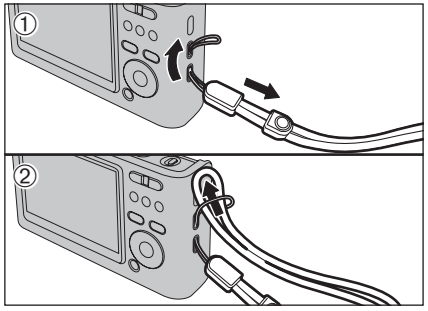
◆ The Cradle ◆

Use the cradle as a convenience tool for your camera:

- Setting the camera in the cradle to charge the battery (➡P.14)
- Displaying your images on a TV (➡P.85)
- Transferring image files quickly to your PC using the cradle's USB interface connection (➡P.90 "DSC (Mass storage device) mode")

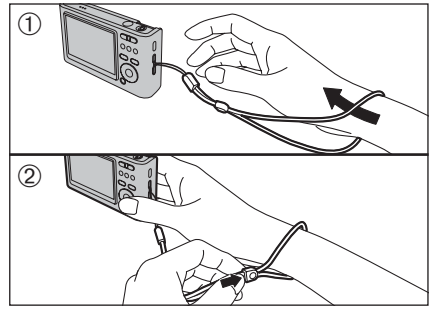
Connect the AC power adapter, A/V(Audio/Visual) cable and USB cable (mini-B) to the cradle.

Attaching the strap



Attach the strap as shown in ① and ②.
When attaching the strap, move the fastener to adjust the length and slightly away from the end of the strap, as shown in figure ①.

Using the strap



① Loop the strap over your wrist.
② To avoid dropping the camera, secure the strap around your wrist by sliding the fastener to adjust the length.

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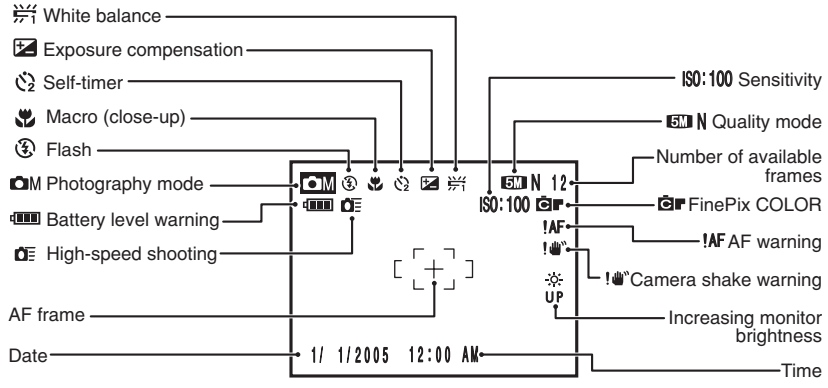
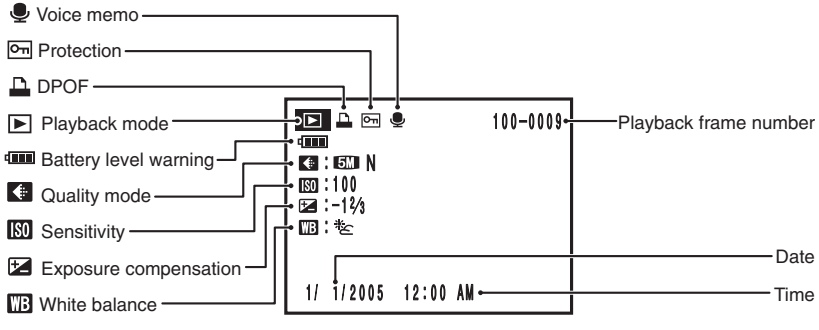
Example of LCD Monitor text display

■ Photography mode



■ Playback mode



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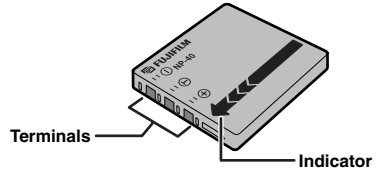
LOADING THE BATTERY AND THE MEDIA

Compatible battery

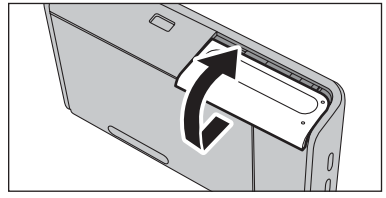


Always use the Rechargeable Battery NP-40 (included).
The use of other brands of rechargeable battery could cause faults or damage to the camera.

- **Rechargeable Battery NP-40 750 mAh (1)**

- **The battery is not fully charged at shipment and must be fully charged before being used.**
- Do not stick labels onto the battery as this could cause the battery to become jammed inside the camera.
- When removed from the camera, the battery should be stored and transported in the case provided. Any contact between the battery terminals could cause the battery to short-circuit and overheat.
- See P.98-99 for information on the battery.

1

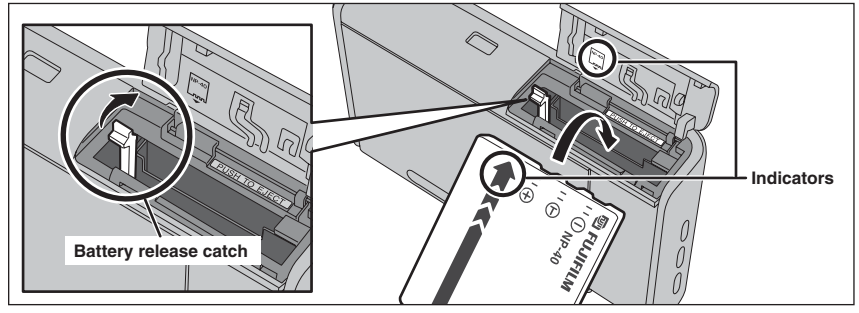


Check that the camera is turned off before opening the battery cover.

- If opening the battery cover while the camera is still on, the camera will turn off.
- Do not apply force to the battery cover.

Do not open the battery cover while the camera is on. This could damage the **xD-Picture Card** or ruin the image files on the **xD-Picture Card**.

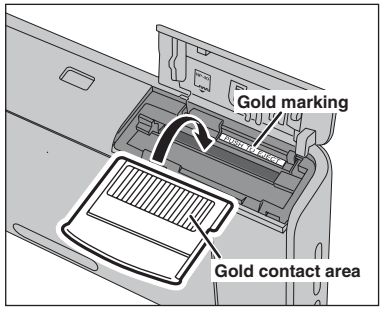
2



Hold the battery so that the indicators are aligned. Push the battery release catch aside while loading the battery. Check that the battery is firmly held in place.

Continued

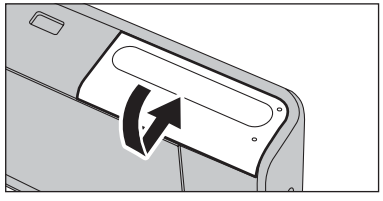
3



Align the gold marking on the xD-Picture Card slot with the gold contact area on the **xD-Picture Card** and push the card firmly all the way into the slot.

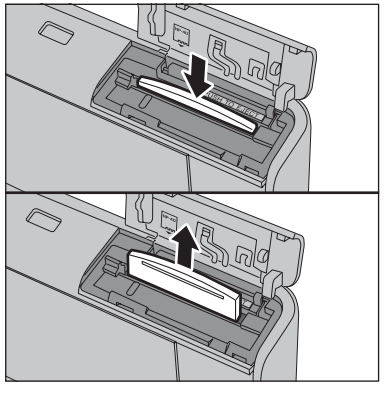
If the **xD-Picture Card** is oriented incorrectly, it will not go all the way into the slot. Do not apply force when inserting an **xD-Picture Card**.

4



Close the battery cover.

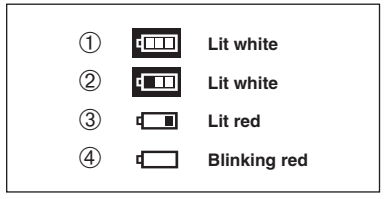
◆ How to replace the xD-Picture Card ◆



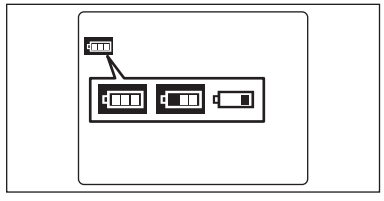
Push the **xD-Picture Card** into the slot and then slowly remove your finger. The lock is released and the **xD-Picture Card** is pushed out.

Checking the battery charge

Turn the camera on and check whether the battery level warning (, or) appears on the LCD monitor.

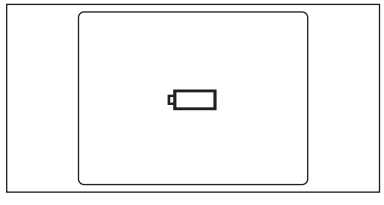


① There is ample battery charge.
② The battery is almost half charged.
③ There is insufficient charge left in the battery. The battery will soon run out. Have a new battery ready.
④ The battery is depleted. The display will shortly go blank and the camera will stop working. Replace or recharge the battery.



" ", " " or " " appears as a small icon on the left-hand side of the LCD monitor.

Depending on the camera mode, the transition from " " to " " may occur more quickly.
Due to the nature of the battery, the battery level warning may appear early when the camera is used in cold locations. This is normal. Try warming the battery in your pocket or a similar location before use.



" " appears as a large icon in the center of the LCD monitor.

◆ Auto power off function ◆

If the camera is left unused for 2 or 5 minutes, the Auto power off function turns the camera off (➡P.77).
To restore power to the camera to take pictures, briefly close and then re-open the lens cover completely so that it will not move further.
To play back images, hold down the "▶" button for about 1 second.

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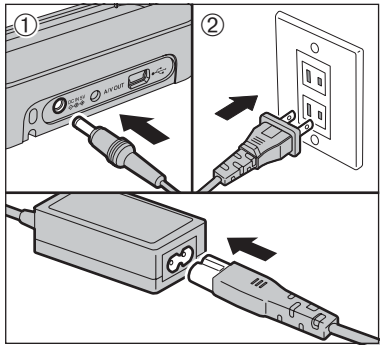
CHARGING THE BATTERY (USING THE CRADLE)

1

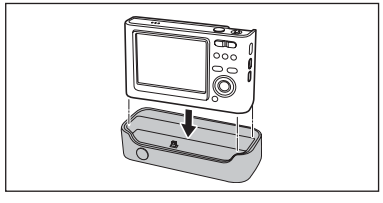


① Plug the AC power adapter connector into the "DC IN 5V" socket on the cradle.
② Plug the AC power adapter into a power outlet.

- **Compatible AC power adapters**
  AC-5VW (included)
  AC-5VX (sold separately)
  AC-5VH (sold separately)
  AC-5VS (sold separately)
  AC-5VHS (sold separately)

- Always use the FUJIFILM products listed on the above.
- See P.99 for notes on using the AC power adapter.
- Do not connect the AC power adapter directly to the camera to charge the battery.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The shape of the plug and socket-outlet depends on the country of use.

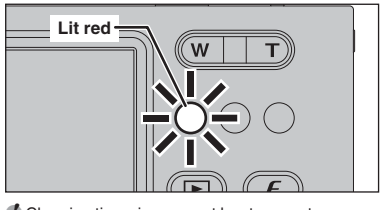
2



Check that the camera is turned off. Set the camera in the cradle.

- Only connect and disconnect the AC power adapter when the camera is off.
  Connecting or disconnecting the AC power adapter while the camera is on temporarily interrupts the power supply to the camera, so that images or movies being shot are not recorded. Failing to turn the camera off first can also result in damage to the **xD-Picture Card** or malfunctions during PC connection.
- Plug the camera securely and vertically into the cradle connecting plug.

3

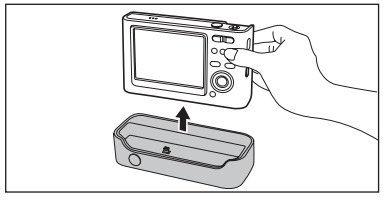


The indicator lamp lights red and battery charging begins. When charging is completed, the indicator lamp turns off.

- **Full recharging times for completely depleted battery**
  At an ambient temperature of +21°C to +25°C (+70°F to +77°F)
  NP-40: approx. 2 hours

- Charging times increase at low temperatures.
- If the indicator lamp blinks during charging, a charging error has occurred and the battery cannot be charged. If this occurs, see P.103.
- Turning the camera on during charging interrupts the charging.
- Use the BC-65 Battery Charger (sold separately) to charge battery more quickly (➡P.97).

4



Remove the camera from the cradle.

- Hold the camera up vertically when removing the camera from the cradle.

◆ Charging the battery ◆

When you try to charge the battery immediately after the camera has been used continuously for a long period (e.g. shooting a movie or connected to a PC), charging may not begin soon (the indicator lamp does not turn red).
This is not a camera fault, but is for protecting the battery from being charged while it is warm. Battery may degrade when charged at high temperatures.
Leave the camera connected to the cradle, and charging will automatically begin within 30 minutes.

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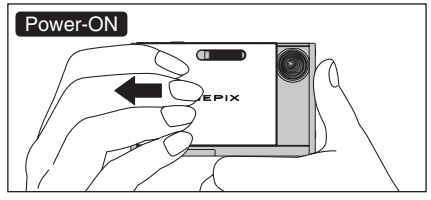
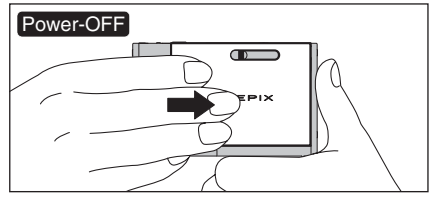
TURNING ON AND OFF

Turn the camera on in Photography mode

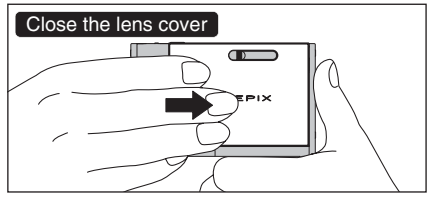


Open the lens cover completely so that it will not move further. The camera is turned on in Photography mode.

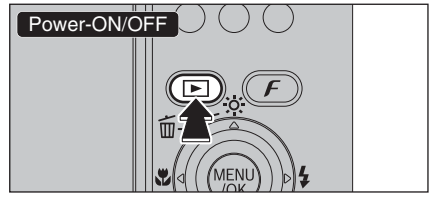


Close the lens cover until it stops. The camera is turned off in Photography mode.

Turn the camera on in Playback mode

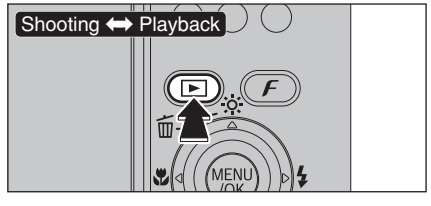


Leave the lens cover closed.



Press the "▶" button for about 1 second to turn the camera on in Playback mode.
Press the "▶" button during playback to turn the camera off.

Move to Photography mode or Playback mode



Press the "▶" button during shooting to change to Playback mode.
Press the "▶" button again to return to Photography mode.

- Press the shutter button or turn the mode switch to return to Photography mode.

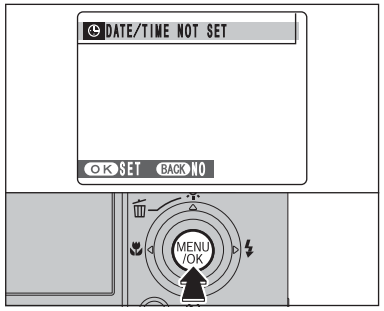
◆ Auto power off function ◆

If the camera is left unused for 2 or 5 minutes, the Auto power off function turns the camera off (➡P.77).
To restore power to the camera to take pictures, briefly close and then re-open the lens cover completely so that it will not move further.
To play back images, hold down the "▶" button for about 1 second.

SETTING THE DATE AND TIME

✻ Correcting the date and time (➡P.17)

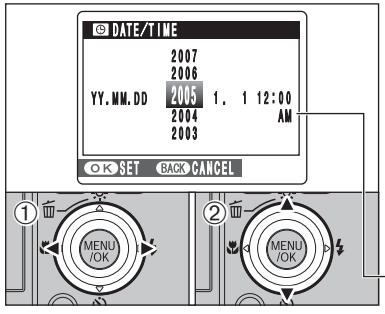
1



When using the camera for the first time after purchasing, the date and time are cleared.
Press the “MENU/OK” button to set the date and time.

- The message also appears when the battery has been removed and the camera has been left for a long period.
- To set the date and time later, press the “DISP/BACK” button.
- If you do not set the date and time, this message will appear each time you turn the camera on.

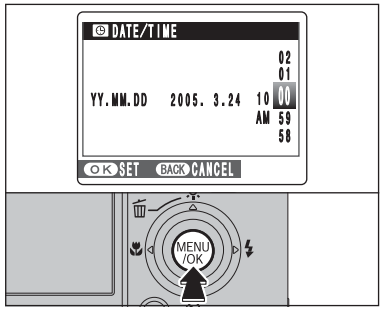
2



① Press “◀” or “▶” to select Year, Month, Day, Hour or Minute.
② Press “▲” or “▼” to correct the setting.

- Holding down “▲” or “▼” changes the numbers continuously.
- When the time displayed passes “12”, the AM/PM setting changes.

3

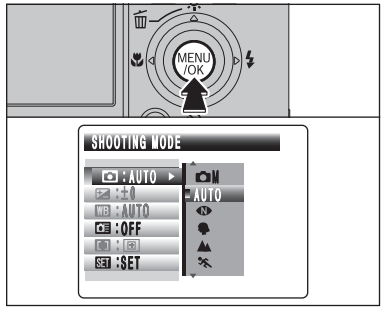


Once you have set the date and time, press the “MENU/OK” button. Pressing the “MENU/OK” button changes the camera to Photography or Playback mode.

- At the time of purchase and after leaving the camera for a long period with the battery removed, settings such as the date and time are cleared. Once the AC power adapter has been connected or the battery has been installed for about 2 hours or more, the camera settings will be retained for roughly 6 hours even if both sources of power are removed.

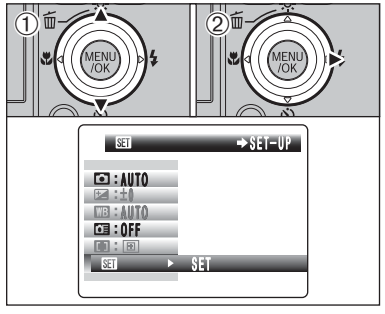
CORRECTING THE DATE AND TIME / CHANGING THE DATE ORDER

1



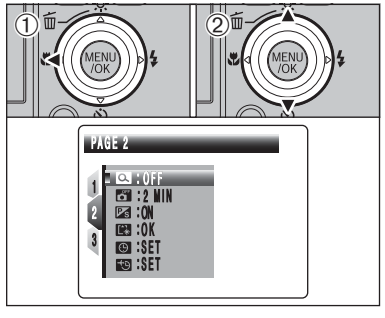
Press the “MENU/OK” button to display the menu on the LCD monitor.

2



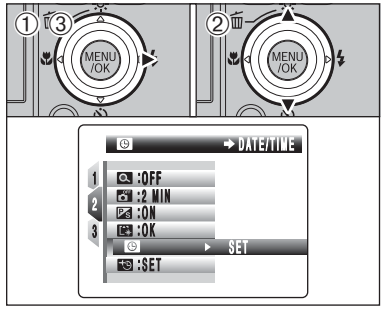
① Press “▲” or “▼” to select “SET” SET-UP.
② Press “▶”.

3



① Press “◀” to move to page number.
② Press “▲” or “▼” to select “PAGE 2”.

4



① Press “▶” to move to menu item.
② Press “▲” or “▼” to select “DATE/TIME” DATE/TIME.
③ Press “▶”.

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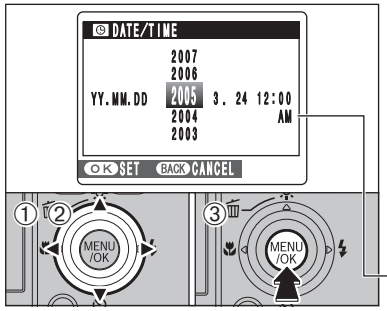
Continued

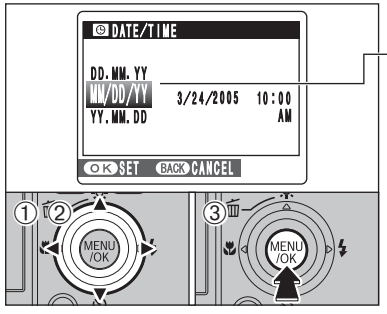
5



Correcting the date and time

① Press "◀" or "▶" to select Year, Month, Day, Hour or Minute.
② Press "▲" or "▼" to correct the setting.
③ Always press the "MENU/OK" button after the settings are completed.

- Holding down "▲" or "▼" changes the numbers continuously.
- When the time displayed passes "12", the AM/PM setting changes.



Changing the date order

① Press "◀" or "▶" to select the date order.
② Press "▲" or "▼" to set the order. Refer to the table below for details of the settings.
③ Always press the "MENU/OK" button after the settings are completed.

Date order	Explanation
YY.MM.DD	Displays the date in the "year. month. day" format.
MM/DD/YY	Displays the date in the "month / day / year" format.
DD.MM.YY	Displays the date in the "day. month. year" format.

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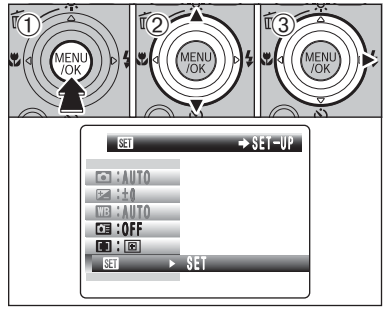
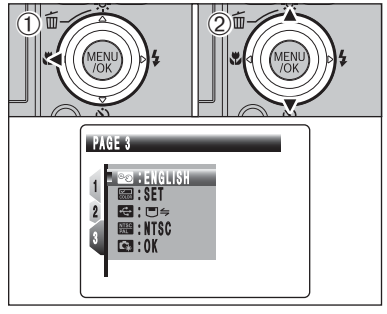
1



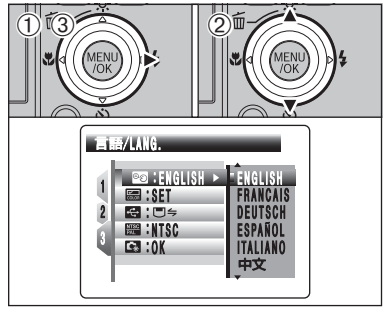
① Press the "MENU/OK" button to display the menu on the LCD monitor.
② Press "▲" or "▼" to select "SET" SET-UP.
③ Press "▶".

2



① Press "◀" to move to page number.
② Press "▲" or "▼" to select "PAGE 3".

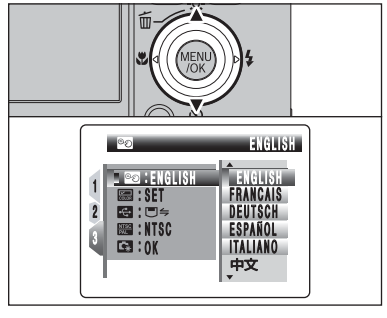
3



① Press "▶" to move to menu item.
② Press "▲" or "▼" to select "言語/LANG.".
③ Press "▶".

- The screens in this manual are shown in English.
- See P.74 for more information on the "SET" SET-UP menu.

4



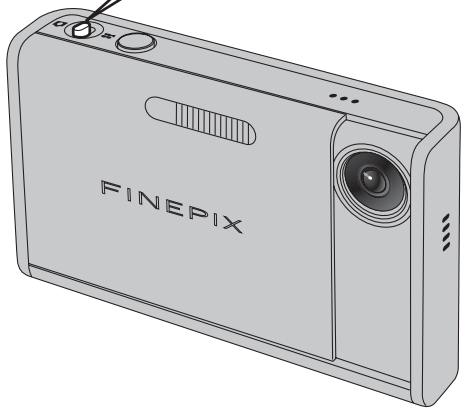
Press "▲" or "▼" to select the language.

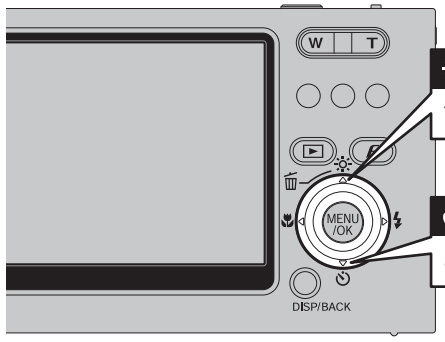
BASIC OPERATION GUIDE

This section describes the camera's functions.

Photography mode selector

Slide the Mode switch to select the Photography mode.





Low light view button

The LCD monitor brightness is increased briefly.

Self-timer button

Selects the self-timer.

Photo mode F button

Photography: Select the quality mode, sensitivity and FinePix COLOR settings.

Playback: Specify the print order (DPOF) settings.

Zoom button

Photography: Press " **T** " to zoom in (telephoto). Press " **W** " to zoom out (wide-angle).

Playback: Press " **T** " to enlarge the image. Press " **W** " to revert to normal display.

◀▶ button

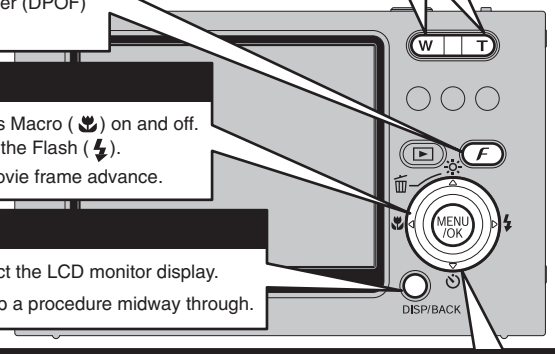
Photography: ◀ button Turns Macro ( ) on and off.
▶ button Sets the Flash ( ).

Playback: Change frame or movie frame advance.

DISP/BACK button

DISP: Press this button to select the LCD monitor display.

BACK: Press this button to stop a procedure midway through.

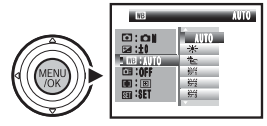


Using the Menus

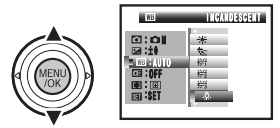
①Displaying the menu.
Press the "MENU/OK" button.

②Selecting a menu option.
Press the up or down arrow on the 4-direction button.

③Selecting an option.
Press the right arrow on the 4-direction button.



④Selecting a setting.
Press the up or down arrow on the 4-direction button.



⑤Confirming the setting.
Press the "MENU/OK" button.

◆ Displaying the on-screen Help ◆

Instructions for the next step in the procedure appear at the bottom of the LCD monitor. Press the button indicated.
Press the "MENU/OK" button to erase the displayed frame. To cancel erasing, press the "DISP/BACK" button.

Up, down, left and right are indicated by black triangles in the Owner's Manual. Up or down is shown as "▲" or "▼", and left or right is shown as "◀" or "▶".

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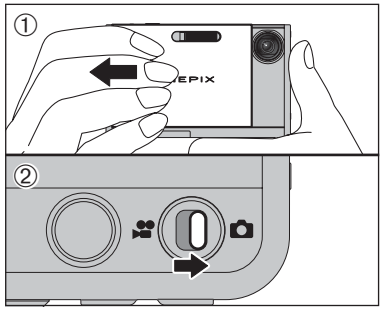
TAKING PICTURES (AUTO AUTO MODE)

1



① Open the lens cover.
② Set the Mode switch to "📷".

● **Focal range**
Approx. 60 cm (2.0 ft.) to infinity

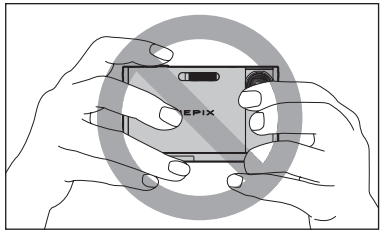
- Use Macro mode for subjects closer than about 60 cm (2.0 ft.) (➡P.34).
- When [CARD ERROR], [CARD NOT INITIALIZED], [CARD FULL] or [NO CARD] appears, see P.101.

2

Brace your elbows against your sides and hold the camera with both hands. Position your right thumb so that it is handy for using the zoom.

- Moving the camera while shooting gives a blurred picture (camera shake). Place the camera on a stable surface to prevent camera shake, particularly for shots in the dark when the selected flash mode is Suppressed flash.
- There may be some uneven brightness at the lower edge of the LCD monitor. This is normal and does not affect the image.

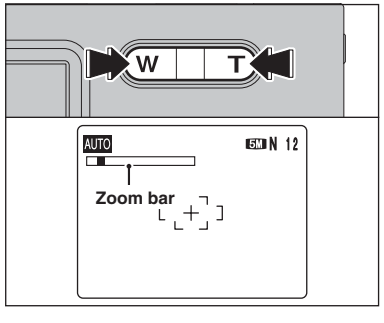
3



Hold the camera so that your fingers or the strap do not cover the lens or flash. If the lens or flash is obscured, the brightness (exposure) of your shot may be incorrect.

- Check that the lens is clean. If it is dirty, clean the lens as informed on P.98.
- If the flash is used in dusty conditions or when it is snowing, white dots may appear in the image due to flash reflecting off the dust particles or snowflakes. Use Suppressed flash mode to fix the problem.

4

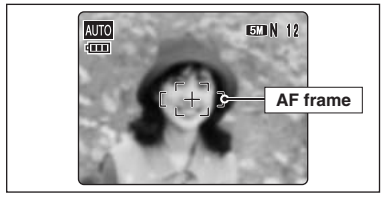


Press "**T**" (telephoto) button to zoom in. Press "**W**" (wide-angle) button to zoom out. A zoom bar appears on the LCD monitor.

● **Optical zoom focal length (35 mm camera equivalent)**
Approx. 36 mm to 108 mm
(3:2: Approx. 38 mm to 114 mm)
Max. zoom scale: 3×

- See P.76 for information on procedures for using Digital zoom.

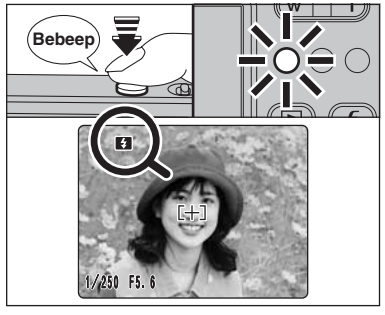
5



Use the LCD monitor to frame the shot so that the subject fills the entire AF (Autofocus) frame.

- The image shown on the LCD monitor before the picture is taken may differ in brightness, color, etc. from the image actually recorded. Play back the recorded image to check it (➡P.27).

6

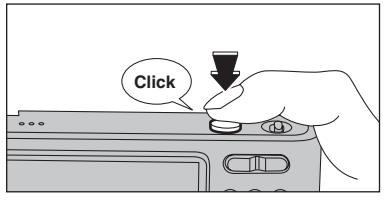


Press the shutter button down halfway. When a short double-beep is heard, the camera focuses on your subject. The AF frame on the LCD monitor becomes smaller and the camera sets the shutter speed and aperture. The indicator lamp (green) changes from blinking to lit.

- When a short double-beep is not heard and "**!AF**" appears on the LCD monitor, the camera cannot focus.
- Pressing the shutter button down halfway freezes the image on the LCD monitor briefly. This image is not the recorded image.
- When "**!AF**" appears on the LCD monitor (e.g. the shot is too dark for the camera to focus), try standing about 2 m (6.6 ft.) from the subject to take the picture.

Before the flash fires, "⚡" appears on the LCD monitor. When selecting a slow shutter speed that will cause camera shake, "**!**✋" appears on the LCD monitor. Use the flash to take pictures. According to the scene or mode being shot, place the camera on a stable surface.

7



Press the shutter button down fully. When a clicking sound is heard, the camera records the image.

- There is a slight delay between the shutter button being pressed and the picture being taken. Play back the shot to check the image.
- When pressing the shutter button down fully in one motion, the camera takes the picture without the AF frame changing.
- When taking a picture using the flash, the image may disappear and go dark briefly due to flash charging. The indicator lamp blinks orange during charging.
- See P.101-102 for information on the warning displays.

◆ Subjects not suitable for autofocus ◆

The FinePix Z1 uses a high-precision autofocusing mechanism. However, it may have difficulty focusing on the following:

- Very shiny subjects such as a mirror or car body
- Subjects photographed through glass
- Subjects that do not reflect well, such as hair or fur
- Subjects with no substance, such as smoke or flames
- Dark subjects
- Fast moving subjects
- Subjects with little or no contrast between the subject and the background (such as white walls or subjects dressed in the same color as the background)
- Shots where another high-contrast object (not the subject) is close to the AF frame and is either closer or further away than your subject (such as a shot of someone against a background with strongly contrasting elements)

For such subjects use AF/AE lock (➡P.25).

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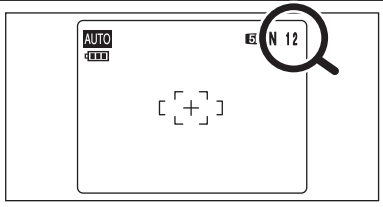
INDICATOR LAMP DISPLAY

Display	Status
Lit green	Locking the focus
Blinking green	AF/AE in progress, camera shake warning or AF warning (ready to shoot)
Blinking green and orange alternately	Recording to **xD-Picture Card** (ready to shoot)
Lit orange	Recording to **xD-Picture Card** (not ready)
Blinking orange	Charging the flash (flash will not fire)
Lit red	Battery charging is in progress
Blinking red	• **xD-Picture Card** Warnings No card inserted, card not formatted, incorrect format, card full and **xD-Picture Card** error • Lens operation error

✻ Detailed warning messages appear on the LCD monitor (➡P.101-102).

NUMBER OF AVAILABLE FRAMES



The number of available frames appears on the LCD monitor.

See P.39 for information on changing the quality setting.
The default quality "⊡" set at shipment is "5M N".

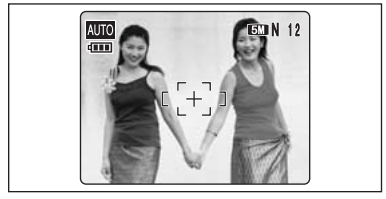
■ Standard number of frames per xD-Picture Card

The table below shows the standard number of frames for a new **xD-Picture Card** formatted on the camera. The larger the **xD-Picture Card** capacity, the bigger the difference between the actual number of frames and the number shown here. Also, the size of an image file varies depending on the subject. So the number of remaining shots may decrease by 2 or may remain the same. For this reason, the number displayed may not show the actual number of frames.

Quality setting	5M F	5M N	3:2	3M	2M	03M
Number of recorded pixels	2592 × 1944		2736 × 1824	2048 × 1536	1600 × 1200	640 × 480
DPC-16 (16 MB)	6	12	12	19	25	122
DPC-32 (32 MB)	12	25	25	40	50	247
DPC-64 (64 MB)	25	50	51	81	101	497
DPC-128 (128 MB)	51	102	103	162	204	997
DPC-256 (256 MB)	102	204	207	325	409	1997
DPC-512/M512 (512 MB)	205	409	414	651	818	3993
DPC-M1GB (1 GB)	412	819	830	1305	1639	7995

USING AF/AE LOCK

1

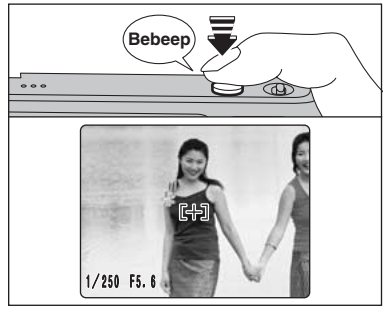


In this shot, the subjects (two people in this case) are not in the AF frame. Taking the picture at this point will result in the subjects being out of focus.

2

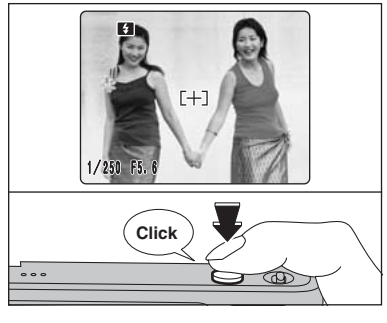
Move the camera slightly so that one of the subjects is in the AF frame.

3



Press the shutter button down halfway (AF/AE lock). When a short double-beep is heard, the camera focuses on your subject. The AF frame on the LCD monitor becomes smaller and the camera sets the shutter speed and aperture. The indicator lamp (green) changes from blinking to lit.

4



Continue to hold the shutter button down halfway. Move the camera back to the original image and press the shutter button fully.

AF/AE lock can be applied repeatedly before the shutter is released.
Use AF/AE lock in all Photography modes to guarantee excellent results.

◆ AF (Autofocus)/AE (Auto-exposure) lock ◆

On the FinePix Z1, pressing the shutter button down halfway locks the focus and exposure settings (AF/AE lock). To focus on a subject that is off to one side or to set the exposure before composing the final shot, lock the AF and AE settings. Then take the picture to get the best result.

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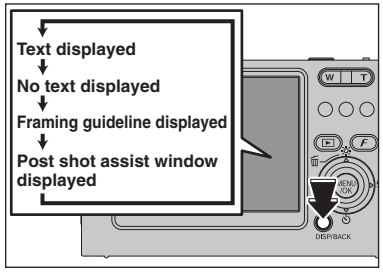
SHOOTING ASSISTANT FUNCTION

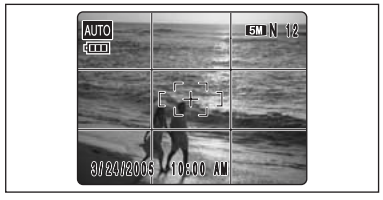


Select the framing guideline and post shot assist window in Photography mode.
Pressing the "DISP/BACK" button changes the LCD monitor display.

◆ Important ◆

Always use AF/AE lock when composing a shot. The image may be out of focus if AF/AE lock is not used.

BEST FRAMING



The framing guideline display consists of horizontal and vertical lines that divide the image on the LCD monitor into 9 frames.

Scene

Position the main subject at the intersection of two lines in this frame or align one of the horizontal lines with the horizon. Use this frame as a guide to the subject's size and the balance of the shot while composing a shot.

- The framing guideline is not recorded on the image.
- The lines in the scene frame divide the image into 3 roughly equal parts horizontally and vertically. The resulting printed image may be shifted slightly from the scene frame.

POST SHOT ASSIST WINDOW

When using the post shot assist window, the last photographed image appears as a thumbnail in the bottom left corner of the LCD monitor (post shot assist window). Up to the last 3 photographed images appear on the post shot assist window. This serves as a guide for taking other shots with similar compositions.

- Any of the following clears the image in the post shot assist window:
  - Setting the camera to Playback mode
  - Turning the camera off
  - Using the PictBridge function
  - Using the DSC mode

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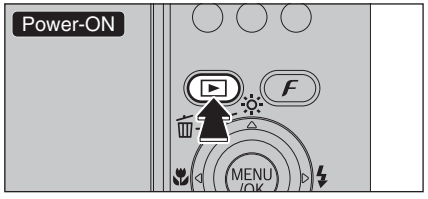
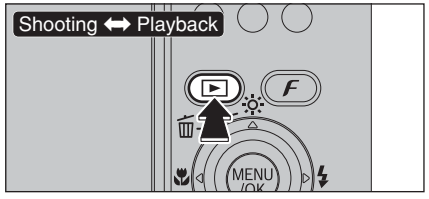
MOVE TO PHOTOGRAPHY MODE OR PLAYBACK MODE



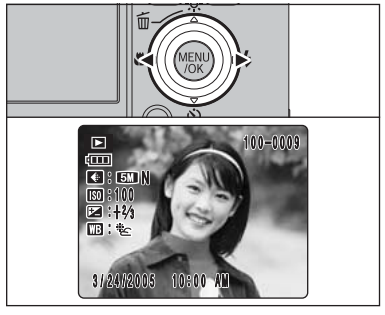
Press the "▶" button for about 1 second to turn the camera on in Playback mode.



Press the "▶" button during shooting to change to Playback mode.
Press the "▶" button again to return to Photography mode.

◆ Auto power off function ◆

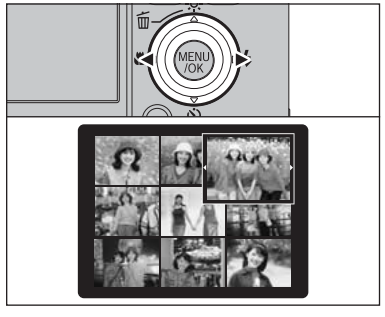
When this function is active, if the camera is left unused for 2 or 5 minutes, the Auto power off function turns the camera off (➡P.77). To turn the camera back on, close the lens cover and then hold down the "▶" button for about 1 second.



Single-frame playback

Press "▶" to scan forward through the images. Press "◀" to scan backwards.

- When the camera is set to Playback mode, the last image shot appears on the LCD monitor.

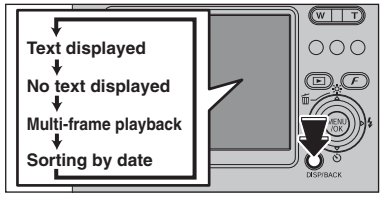


Selecting images

To select images on the thumbnail lists screen, hold down "◀" or "▶" for about 1 second during playback.

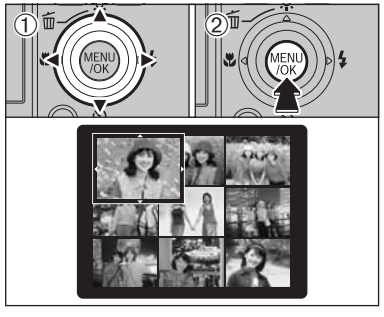
◆ Still images viewable on the FinePix Z1 ◆

This camera will display still images recorded on the FinePix Z1 or still images (excluding some uncompressed images) recorded on any FUJIFILM digital camera that supports **xD-Picture Card**s.
Clear playback or playback zooming may not be possible for still images shot on cameras other than the FinePix Z1.



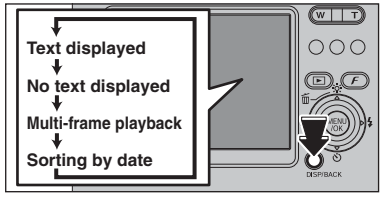
Multi-frame playback

In Playback mode, press the “DISP/BACK” button to change the display shown on the LCD monitor. Press the “DISP/BACK” button until the multi-frame playback screen (9 frames) appears.



① Press “▲”, “▼”, “◀” or “▶” to move the cursor (colored frame) to the selecting frame. Press “▲” or “▼” repeatedly to jump to the next page.
② Press the “MENU/OK” button to enlarge the image.

1

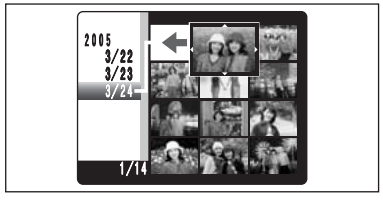


Sorting by date

In Playback mode, press the “DISP/BACK” button to change the display shown on the LCD monitor. Press the “DISP/BACK” button until the sorting by date screen appears.

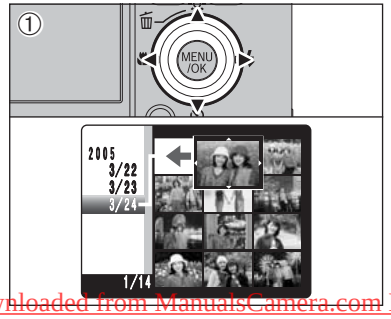
Large number of images may take longer to appear.

2



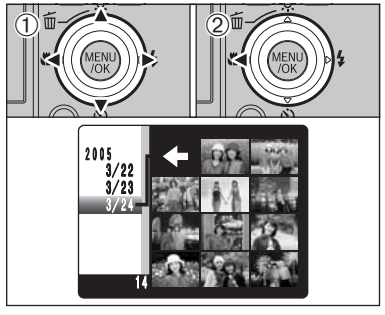
Changing to Sorting by date mode displays the images taken on the same day as the image selected in Multi-frame playback mode.

3



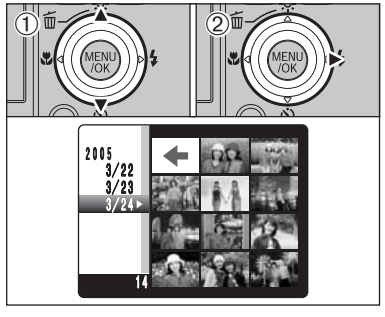
Press “▲”, “▼”, “◀” or “▶” to move the cursor (colored frame) to the selecting frame.

4



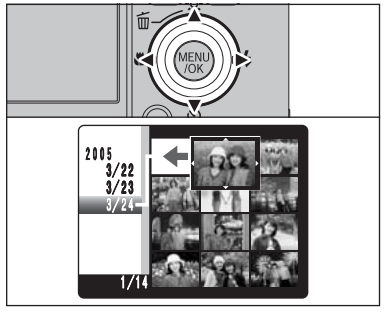
To select the date:
① Press “▲”, “▼”, “◀” or “▶” to move the cursor (colored frame) to “⬅” on the upper left frame.
② Press “◀” to display the selecting date.

5



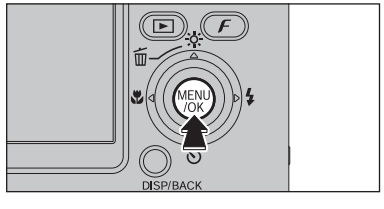
① Press “▲” or “▼” to move the cursor (colored frame) to select the date. Pressing “▲” or “▼” repeatedly changes to the next page.
② Press “▶” to select the first frame taken on the date.

6



Press “▲”, “▼”, “◀” or “▶” to move the cursor (colored frame) to the selecting frame.

7



Press the “MENU/OK” button to enlarge the selected image.

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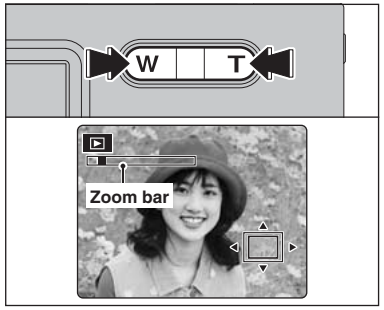
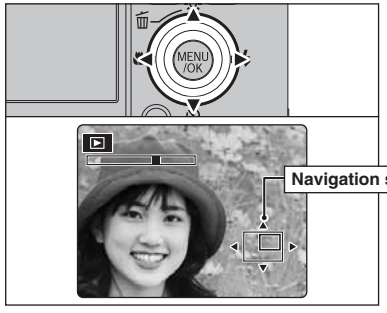


Playback zoom

Press the "**T**" or "**W**" button during single-frame playback to zoom the image. A zoom bar appears on the LCD monitor.

Quality mode	Max. zoom scale
5M (2592 × 1944 pixels)	Approx. 4.1×
3:2 (2736 × 1824 pixels)	Approx. 4.3×
3M (2048 × 1536 pixels)	Approx. 3.2×
2M (1600 × 1200 pixels)	Approx. 2.5×

Playback zoom cannot be used with multi-frame playback.



Press "▲", "▼", "◀" or "▶" to display another part of the image.
The current displayed image appears on the navigation screen.

Press the "DISP/BACK" button to cancel playback zoom.

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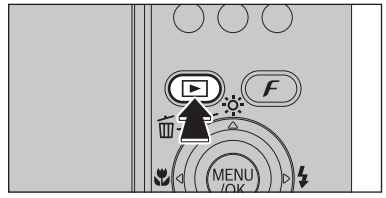
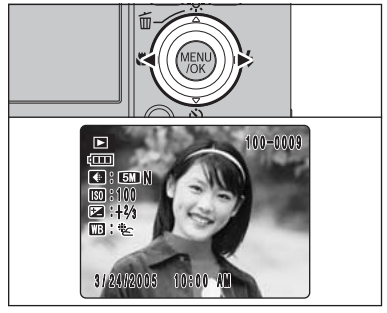
1



Press the "▶" button for about 1 second to turn the camera on in Playback mode.

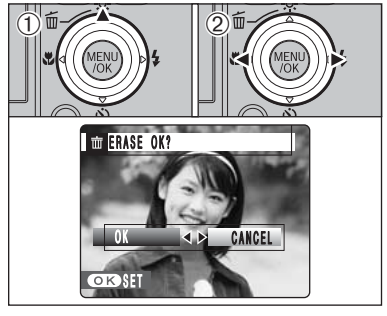
2



Press "◀" or "▶" to select the erasing frame (file).

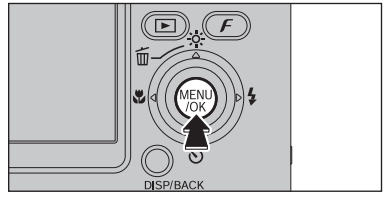
Erased frames (files) cannot be recovered. Back up important frames (files) onto your PC or another media.

3



① Press "🗑 (▲)".
② Press "◀" or "▶" to select "OK".

4



Press the "MENU/OK" button to erase the displayed frame (file).
When erasing frames (files) is completed, camera returns to single-frame playback.

Specify the camera settings for taking pictures to get the best result. A general guide is given below.

1 Select the Photography mode (➡P.45-46).

AUTO Auto — Specifies all settings other than Quality, Sensitivity and FinePix COLOR on the camera.

, , , , — Selects the best Scene position setting for the scene being shot.

Manual — Sets the “Exposure compensation”, “White balance” and “AF mode” to manual to easily control yourself.

2 Specify the photography settings (➡P.34-37).

- Macro — Used for close-up shots.
- Flash — Used for shots in dark locations or for backlit subjects, etc.
- Self-timer — Used in situations such as group shots where the photographer is included in the shot.

3 Take the pictures (check the exposure and focus ➡ adjust the shot composition ➡ press the shutter button down fully).

★ You can use the menus for more detailed settings (➡P.39-42, 46-48).

The table below provides a number of sample settings. Use the settings effectively.

To achieve this result	Sample settings
To prevent the image from having a red or blue cast due to the light source	Change the “White balance” setting in the photography menu.
To avoid missing snapshot opportunities	Take pictures in AUTO mode (see “Using the Camera”). Shoot with HIGH-SPEED SHOOTING.
To prevent the subject from being overexposed or underexposed and to show the substance and textures of the subject clearly.	Use exposure compensation. Select (+) if the background is pale and (–) if the background is dark.

■ List of functions available in each mode

Function \ Photography mode			AUTO	NATURAL LIGHT	PORTRAIT	LANDSCAPE	SPORT	NIGHT	M
Macro		P.34	YES	YES	NO	NO	NO	NO	YES
Flash	AUTO Auto flash	P.35	YES	NO	YES	NO	YES	NO	YES
	Red-eye reduction	P.35	YES	NO	YES	NO	NO	NO	YES
	Forced flash	P.36	YES	NO	YES	NO	YES	NO	YES
	Suppressed flash	P.36	YES	YES	YES	YES	YES	YES	YES
	Slow synchro	P.36	NO	NO	YES	NO	NO	YES	YES
	Red-eye reduction + Slow synchro	P.36	NO	NO	YES	NO	NO	YES	YES
Self-timer		P.37	YES	YES	YES	YES	YES	YES	YES

■ List of menu options available in each mode

			Factory default	AUTO	N	///	M
FinePix Photo mode	Quality	P.39	5M N	YES	YES	YES	YES
	ISO	P.41	AUTO	YES	YES*	YES	YES
	FinePix COLOR	P.42	F-STANDARD	YES	YES	YES	YES
Menu options	Exposure compensation	P.46	OFF	NO	NO	NO	YES
	White balance	P.47	AUTO	NO	NO	NO	YES
	High-speed shooting	P.47	OFF	YES	YES	YES	YES
	AF mode: CENTER	P.48	CENTER	YES	YES	YES	YES
	AF mode: MULTI	P.48	CENTER	NO	NO	NO	YES

* AUTO only

When the camera does not obtain the correct exposure.

When the image is too bright
Lower the ISO sensitivity setting.

When the image is too dark
Raise the ISO sensitivity setting.
Use flash.

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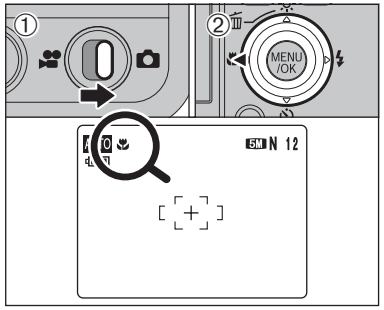
MACRO (CLOSE-UP)

Available Photography modes:
AUTO, N, M



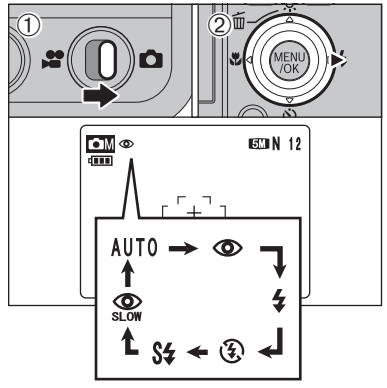
Select Macro mode to take close-up shots.
① Set the Mode switch to "M".
② Press the "◀)" button. The "" appears on the LCD monitor indicating that you can take close-up shots.
To cancel Macro mode, press the "◀)" button again.

- **Focal range**
  Approx. 8 cm to 80 cm (3.1 in. to 2.6 ft.) (wide-angle)
  Approx. 45 cm to 80 cm (1.5 ft. to 2.6 ft.) (Telephoto)
- **Effective flash range**
  Approx. 30 cm to 80 cm (1.0 ft. to 2.6 ft.)

- Any of the following cancels Macro mode:
  - Changing the Mode switch setting
  - Turning the camera off
- Place the camera on a stable surface to prevent camera shake when shooting in the dark (when "" appears).
- Selecting AF (MULTI), the focusing position remains near the center of the LCD monitor.

FLASH

Available Photography modes:
AUTO, , , , M



Press the shutter button down halfway. Before the flash fires, "" appears on the LCD monitor.

Choose from 6 flash modes according to the type of shot.
① Set the Mode switch to "M".
② The flash setting changes each time you press the "▶)" button. The last displayed setting is the selected mode .

- **Effective flash range (AUTO)**
  Wide-angle: approx. 30 cm to 3 m (1.0 ft. to 9.8 ft.)
  Telephoto: approx. 60 cm to 2.3 m (2.0 ft. to 7.5 ft.)

- If the flash is used in dusty conditions or when it is snowing, white dots may appear in the image due to flash reflecting off dust particles or snowflakes. Use Suppressed flash mode to fix the problem.
- The flash charging time may increase when the battery is low on charge.
- When taking a picture using the flash, the image may disappear and go dark briefly due to flash charging. The indicator lamp blinks orange during charging.
- The available flash modes are limited depending on the Photography menu selected (➡P.33).
- The flash fires several times (pre-flashes and the main flash).

AUTO Auto flash (no icon)

Use this mode for ordinary photography. The flash fires as required by the shooting conditions.

- If pressing the shutter button while the flash is charging, the picture will be taken without the flash.

Red-eye reduction

Use this mode to guarantee that the subject's eyes appear normal when taking pictures of people in low-light conditions. The flash fires a pre-flash just before the picture is taken and then fires again to take the actual picture. The flash fires as required by the shooting conditions.

- If pressing the shutter button while the flash is charging, the picture will be taken without the flash.

◆ Red-eye effect ◆

When using the flash to take a picture of people in low-light conditions, their eyes sometimes appear red in the picture. This is caused by the light of the flash reflecting off the inside of the eye. Use Red-eye reduction flash to minimize the likelihood of this effect.
Take the following measures to make Red-eye reduction more effective:
● Get the subjects to look at the camera. ● Get as close as possible to the subjects.

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Continued

FLASH

Available Photography modes:
AUTO, , , ,

Forced flash

Use this mode in backlit scenes, such as a subject against a window or in the shade of a tree, or to get the correct colors when taking a picture under bright lighting. In this mode, the flash fires in bright as well as dark conditions.

Suppressed flash

Use this mode for taking pictures using indoor lighting, for shots taken through glass, and for photography in places such as theaters or at indoor sporting events where the distance is too great for the flash to be effective. When you use Suppressed flash, the selected white balance function (➡P.47) operates so that natural colors are captured along with the ambience of the available light.

- Place the camera on a stable surface to prevent camera shake when shooting in Suppressed flash mode in the dark condition.
- See P.24, 101 for information on the camera shake warning.

Slow synchro

This is a flash mode that uses a slow shutter speed. This allows you to take pictures of people at night that clearly show both your subjects and the night time backdrop.
Place the camera on a stable surface to prevent camera shake.

- **Slowest shutter speed**
  "" **NIGHT:** up to 4 sec.

Red-eye reduction + Slow synchro

Use this mode for Slow synchro shots with Red-eye reduction.

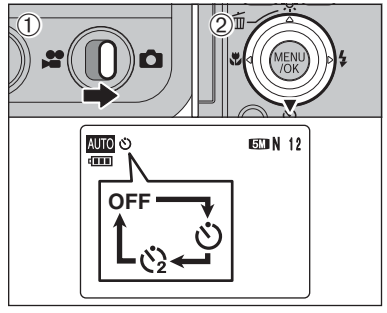
- The image may be overexposed when shooting bright scenes.

To take a picture of a main subject at night with the background brightly lit, use the "" (NIGHT) setting in Photography mode (➡P.46).

SELF-TIMER

Available Photography modes:
AUTO, , , , , ,

1



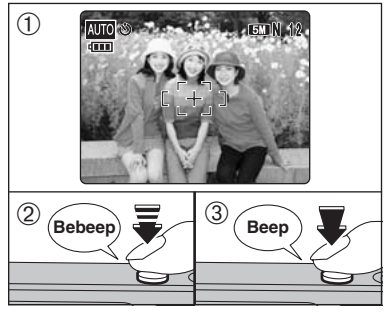
The self-timer is used in situations where the photographer is included in the shot.
When photographer is away from the camera, place the camera on a stable surface to prevent camera fall.
① Set the Mode switch to "".
② The self-timer setting changes each time you press the "" (▼)" button. The last displayed setting is the selected mode.
: The picture is taken after 10 seconds.
: The picture is taken after 2 seconds.

- Any of the following cancels the self-timer setting:
  - Completing the shooting
  - Changing the Mode switch setting
  - Setting the camera to Playback mode
  - Turning the camera off

◆ Using the 2-second self-timer ◆

This is useful to prevent camera shake.

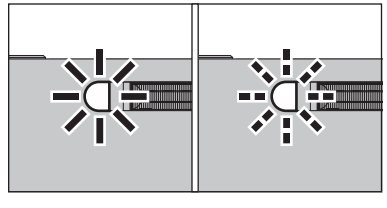
2



① Position the AF frame over the subject.
② Press the shutter button down halfway to focus on the subject.
③ Without releasing the shutter button, press the button all the way down (fully pressed) to start the self-timer.

- The AF/AE lock can be used (➡P.25).
- Take care not to stand in front of the lens when pressing the shutter button as this can prevent the correct focus or brightness (exposure) from being achieved.

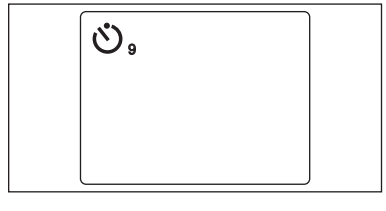
3



The self-timer lamp lights and then starts blinking until the picture is taken.

- To stop the self-timer, once it has started running, press the "DISP/BACK" button.

4



A countdown appears on the LCD monitor indicating the time remaining until the picture is taken.
Self-timer mode is cancelled after each shot.

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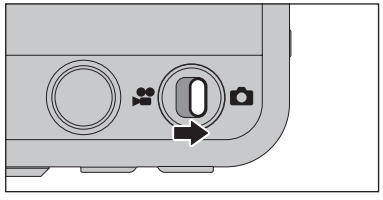
PHOTOGRAPHY FUNCTIONS

INCREASING MONITOR BRIGHTNESS

Available Photography modes:
AUTO, N, , , , , M

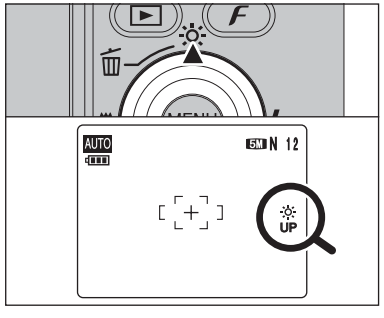
This is useful when checking the shot composition for dark scenes (Slow synchro shots, etc.).

1



Set the Mode switch to "".

2



Press the " (▲)" button.
" " appears on the LCD monitor and the subject is displayed brightly.
To cancel increased brightness:
Press the " (▲)" button again.
This function is automatically cancelled after each shot.

- When this function is active, it will increase the amount of speckling in images on the LCD monitor. This is normal and does not affect the photographed image.
- This function is purely for checking the composition of your shot. It does not increase the brightness of the image.
- Even if you increase the brightness in low-light conditions, you cannot check the subject.
- The color tones may vary depending on the subjects.

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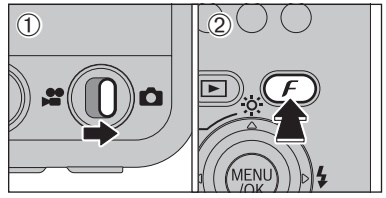
PHOTO MODE PHOTOGRAPHY

QUALITY MODE (NUMBER OF RECORDED PIXELS)

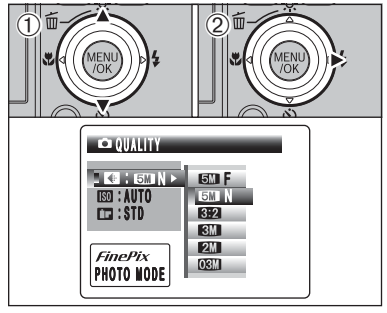
1



① Set the Mode switch to "".
② Press the " " button to display the menu on the LCD monitor.

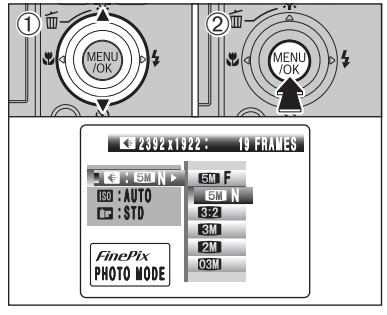
The quality setting is retained even when the camera is off or the mode setting is changed.

2



① Press "▲" or "▼" to select " " QUALITY.
② Press "▶".

3



① Press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

- The numbers to the upper right of setting show the number of available frames.
- When changing the quality setting, the number of available frames also changes (➡P.24).

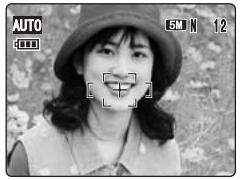
QUALITY MODE (NUMBER OF RECORDED PIXELS)

Quality settings in Photography mode

Quality mode	Sample uses
5M F (2592 × 1944)	Printing at up to 10R (25.4 × 30.5 cm) / A4 size For better quality, select "5M F"
5M N (2592 × 1944)	
3:2 (2736 × 1824)	
3M (2048 × 1536)	Printing at up to 6R (15.2 × 20.3 cm) / A5 size
2M (1600 × 1200)	Printing at up to 4R (10.2 × 15.2 cm) / A6 size
03M (640 × 480)	To use for e-mail or web site

◆ Area shot and quality setting ◆

Area shot excluding "3:2"



Area shot with "3:2"

Normal shooting provides an aspect ratio of 4:3 and "3:2" shooting provides an aspect ratio of 3:2 (same aspect ratio as 35 mm film and post card).

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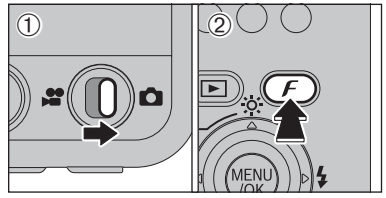
ISO SENSITIVITY

1

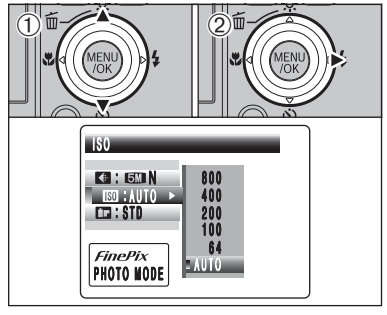


① Set the Mode switch to "📷".
② Press the "F" button to display the menu on the LCD monitor.

In "🎥" Movie mode, do not set the "ISO" (sensitivity) setting.

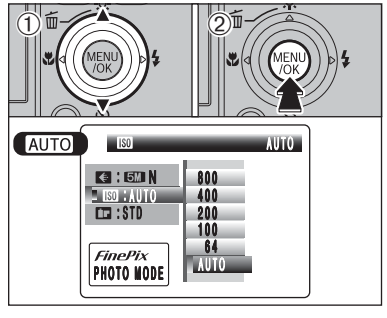
Sensitivity is retained even when the camera is off or the mode setting is changed.

2



① Press "▲" or "▼" to select "ISO" (sensitivity).
② Press "▶".

3



① Press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

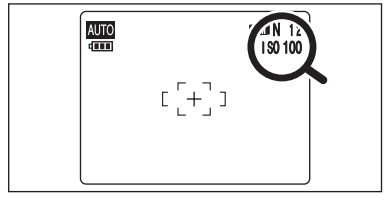
- **Settings**
  AUTO /64/100/200/400/800

Although higher sensitivity settings will allow you to take pictures in darker locations, they will also increase the amount of speckling in your images. Streaking may also be visible in shots of scenes such as the night sky.
Choose the sensitivity setting that best suits the conditions.

When selecting "🌙" NATURAL LIGHT in "📷" SHOOTING MODE, only AUTO can be selected in the "ISO" (sensitivity) setting.

When selecting AUTO as the sensitivity setting, the camera selects the best sensitivity setting for the subject's brightness.

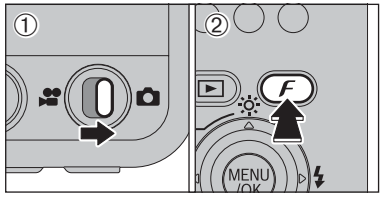
4



When the sensitivity is set to "64", "100", "200", "400" or "800", the selected sensitivity setting appears on the LCD monitor.

FinePix COLOR

1

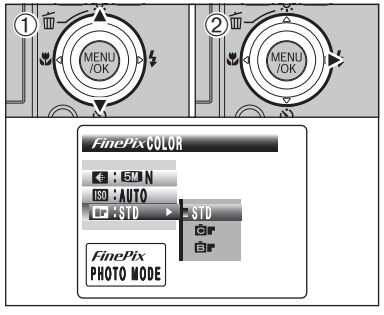


① Set the Mode switch to "📷".
② Press the "F" button to display the menu on the LCD monitor.

In "🎥" Movie mode, do not set the "Fr" FinePix COLOR setting.

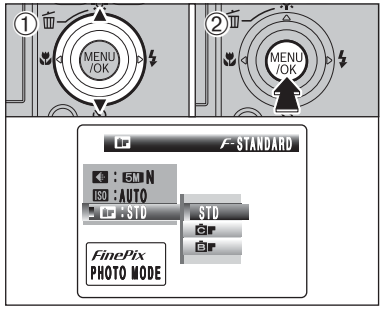
The FinePix COLOR setting is retained even when the camera is off or the mode setting is changed.

2



① Press "▲" or "▼" to select "Fr" FinePix COLOR.
② Press "▶".

3

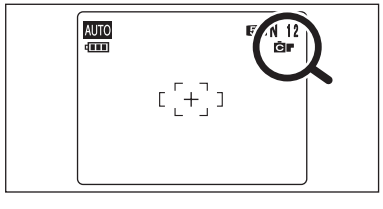


① Press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

- F-CHROME may have little visible effect with some subjects, such as close-up shots of people (portraits).
- Because the effects on the image differ depending on the scene being shot in F-CHROME mode, take pictures in F-STANDARD mode as well as this mode. Note that you may not be able to see any difference on the LCD monitor.
- For shots taken in F-CHROME mode or F-B&W mode, automatic quality adjustment will be suppressed on Exif Print compliant printers.

F-STANDARD	The contrast and color saturation are set to standard. Use this mode for normal photography.
F-CHROME	The contrast and color saturation are set to high. This feature is effective for taking more vivid shots of subjects such as scenery (blue sky and greenery) and flowers.
F-B&W	This setting converts the colors in the photographed image to black and white.

4



When setting F-CHROME or F-B&W, the icon appears on the LCD monitor.
F-CHROME: Cr
F-B&W: Br

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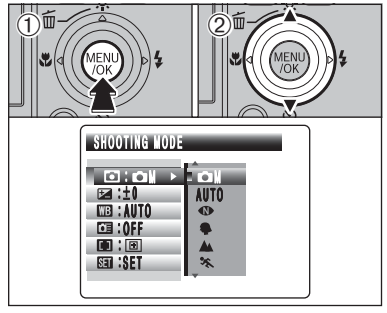
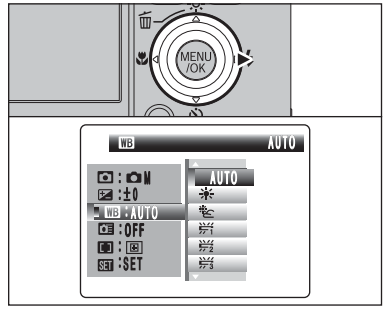
PHOTOGRAPHY MENU OPERATION

1



① Press the "MENU/OK" button to display the menu on the LCD monitor.
② Press "▲" or "▼" to select the menu item.

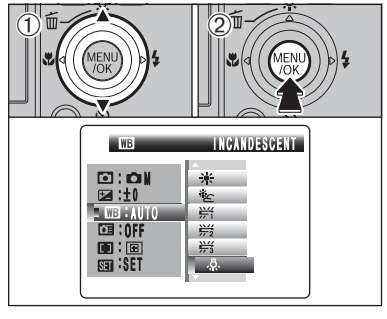
2



Press "▶".

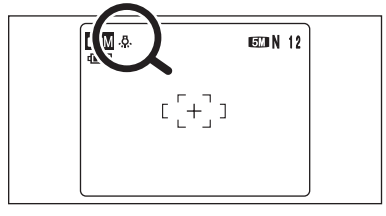
When the top or bottom of the menu item is selected, press "▲" or "▼" to change the page.

3



① Press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

4



When the setting is enabled, an icon appears in the top-left corner of the LCD monitor.

The settings available in the menu screen vary depending on the Photography mode.

Continued

Shooting mode ➡P.45

Specify "M" MANUAL, "AUTO", "N" NATURAL LIGHT, "PORTRAIT", "LANDSCAPE", "SPORTS or "NIGHT.

Exposure compensation ➡P.46

Use this setting when the correct exposure cannot be obtained.

White balance ➡P.47

Change this setting to suit for the surroundings and lighting.

High-speed shooting ➡P.47

Use this setting to focus the shot quickly.

AF mode ➡P.48

Set the focusing method.

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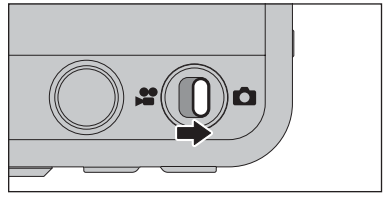
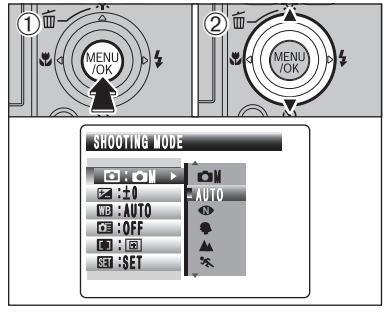
SHOOTING MODE

1



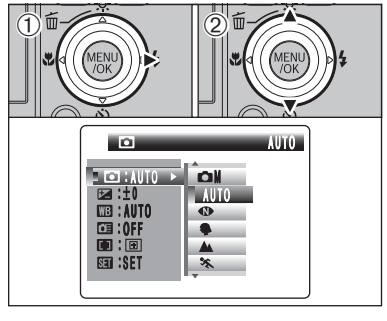
Choose from 7 types of Scene position setting for the scene being shot.
Set the Mode switch to "".

2



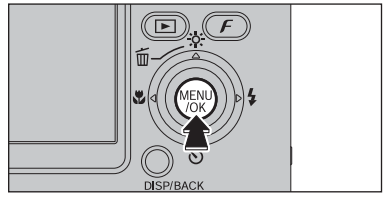
① Press the "MENU/OK" button to display the menu on the LCD monitor.
② Press "▲" or "▼" to select "" SHOOTING MODE.

3



① Press "▶".
② Press "▲" or "▼" to change the setting.

4



Press the "MENU/OK" button to confirm the setting.

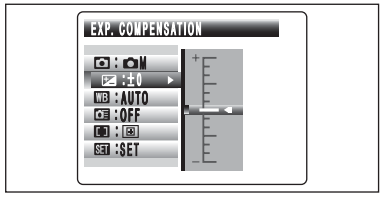
Continued

Shooting mode	Explanation	Available flash modes
M MANUAL	Sets the "Exposure compensation" (➡P.46), "White balance" (➡P.47) and "AF mode" (➡P.48) to manual to easily control yourself.	AUTO / ◉ / ϟ / ⊛ / S↯ / ◉SLOW
AUTO	Used in a wide range of conditions. This is the easiest mode for taking pictures.	AUTO / ◉ / ϟ / ⊛
N NATURAL LIGHT	This mode produces beautiful images that retain the natural ambience when shots are taken in low-light conditions. This mode is also ideal for situations where the flash cannot be used. Sample uses: • Portraits of sleeping children, pets and birthday cakes • Candlelit services (weddings, etc.) and school concerts • Restaurants, aquariums, museums and churches	Flash not available
PORTRAIT	Used for photography getting beautiful skin tones and soft overall tone.	AUTO / ◉ / ϟ / ⊛ / S↯ / ◉SLOW
LANDSCAPE	Used for shooting scenery in daylight and provides crisp, clear shots of scenery such as buildings and mountains.	Flash not available
SPORT	Used for shooting sporting events. This mode gives priority to faster shutter speeds.	AUTO / ϟ / ⊛
NIGHT	Used for shooting evening and night scenes. This mode allows you to take shots where priority is given to slow shutter speeds of up to 4 seconds. Place the camera on a stable surface to prevent camera shake.	S↯ / ◉SLOW / ⊛

✻ "", "", "" and "" cannot be selected Macro mode.

EXPOSURE COMPENSATION

Available Photography mode: M



Use this function for shots to get the correct brightness (exposure), such as shots with extremely high contrast between the subject and the background.

- **Compensation range**
  –2 EV to +2 EV (13 steps in 1/3 EV increments)
  See P.107 for more information on EV.

Any of the following disables exposure compensation:
- Using the flash in Auto or Red-eye reduction mode
- Shooting dark scenes in Forced flash mode

◆ To obtain the optimum brightness ◆

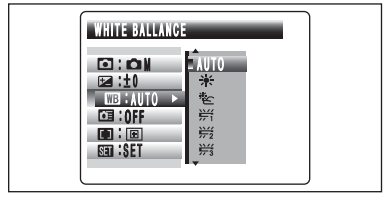
Adjust the exposure compensation according to the level of brightness or darkness in the image.

- When the subject appears too bright
  Try a negative (–) compensation setting.
  This will make the overall image darker.
- When the subject appears too dark
  Try a positive (+) compensation setting.
  This will make the overall image brighter.

■ Guide to compensation
- Backlit portraits: +2 steps to +4 steps (+$\frac{2}{3}$ EV to +1$\frac{1}{3}$ EV)
- Very bright scenes (such as snowfields) and highly reflective subjects: +3 steps (+1 EV)
- Shots made up predominantly of sky: +3 steps (+1 EV)
- Spotlit subjects, particularly against dark backgrounds: –2 steps (–$\frac{2}{3}$ EV)
- Scenes with low reflectivity, such as shots of pine trees or dark foliage: –2 steps (–$\frac{2}{3}$ EV)

WB WHITE BALANCE (SELECTING THE LIGHT SOURCE)

Available Photography mode: M



Change the white balance setting to suit for the surroundings and lighting.
In AUTO mode, the correct white balance may not be achieved for subjects such as close-ups of people's faces and pictures taken under a special light source. Select the correct white balance for the light source. See P.107 for more information on the white balance.

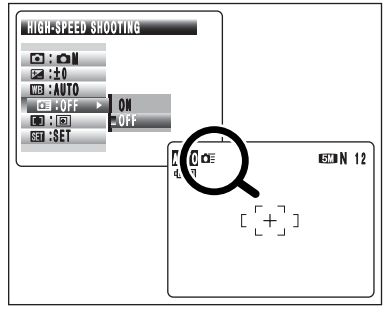
AUTO: Automatic adjustment (shooting to show the ambience of the light source)
☀: Shooting outdoors in good weather
⛅: Shooting in shade
1: Shooting under "Daylight" fluorescent lamps
2: Shooting under "Warm White" fluorescent lamps
3: Shooting under "Cool White" fluorescent lamps
: Shooting in incandescent light

✻ When the flash fires, the white balance setting for the flash is used. Consequently, to achieve a particular effect, the flash mode should be set to Suppressed flash (➡P.36).

The color tones may vary depending on the shooting conditions (light source, etc.).

HIGH-SPEED SHOOTING

Available Photography modes: AUTO, N, , , , , M



High-speed shooting mode reduces the time required for focusing when pressing the shutter button down halfway.
The available shooting distance is from approx. 1 m (3.3 ft.) to infinity.

- When this function is active, higher sensitivity settings will increase the amount of speckling in your images. This is normal and does not affect the photographed image.
- When taking pictures while the High-speed shooting mode is set to "ON", the battery will run down more quickly.
- The LCD power save function is disabled in this mode.

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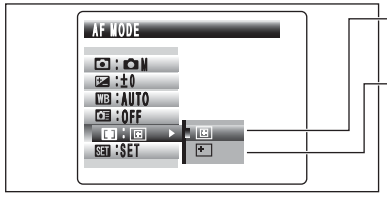
PHOTOGRAPHY MENU

✻ Displaying the menus (➡P.43)

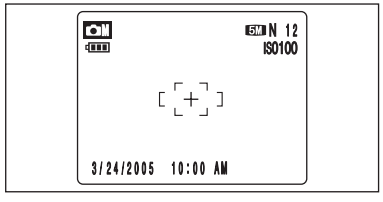
AF MODE

Available Photography mode: 📷M



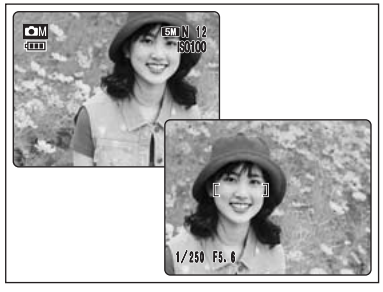
CENTER

MULTI



CENTER

The camera focuses on the center of the LCD monitor. Use this setting when taking pictures using AF/AE lock (➡P.25).



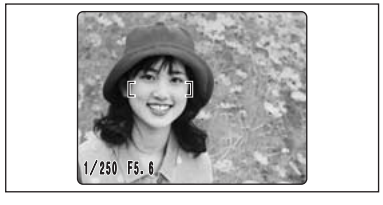
MULTI

Press the shutter button down halfway. The camera recognizes any strongly contrasting subject near the center of the LCD monitor and displays the AF frame over subject in focus.

When taking pictures in Macro mode, the camera focuses on the center of the LCD monitor.

For a high-contrast subject in the center of the LCD monitor

Press the shutter button down halfway. The AF frame appears positioned on the high-contrast subject near the center of the image.



When there is no high-contrast subject in the center of the LCD monitor

When the camera has difficulty focusing on the subject in “MULTI” mode, set the AF mode to “CENTER” and use AF/AE Lock (➡P.25).

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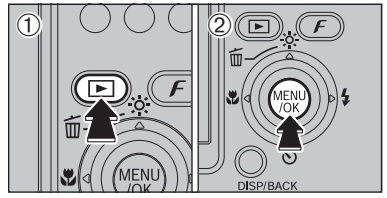
🗑 ERASING SINGLE / ALL FRAMES

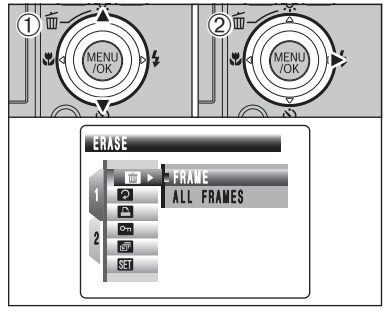
1



① Press the “▶” button to turn the camera on in Playback mode.
② Press the “MENU/OK” button to display the menu on the LCD monitor.

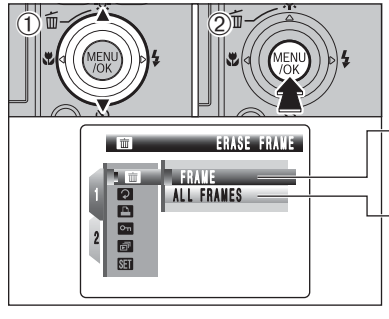
Erased frames (files) cannot be recovered. Back up important frames (files) onto your PC or another media.

2



① Press “▲” or “▼” to select “🗑” ERASE.
② Press “▶”.

3



① Press “▲” or “▼” to select “FRAME” or “ALL FRAMES”.
② Press the “MENU/OK” button.

FRAME

Erases only the selected frame (file).

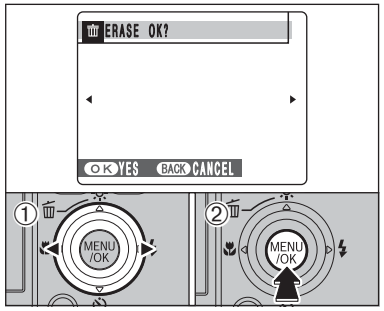
ALL FRAMES

Erases all unprotected frames (files).
Back up important frames (files) onto your PC or another media.

“DPOF SPECIFIED. ERASE OK ?” appears when erasing a frame (file) with DPOF setting.

Continued

PLAYBACK MENU 🗑 ERASING SINGLE / ALL FRAMES



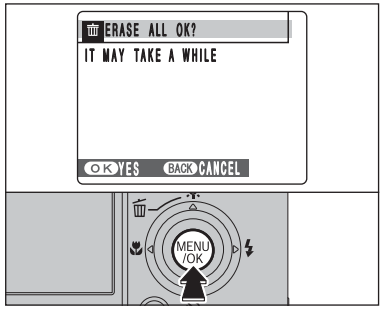
FRAME

① Press "◀" or "▶" to select the erasing frame (file).
② Press the "MENU/OK" button to erase the currently displayed frame (file).

To erase another frame (file), repeat steps ① and ②.

When erasing frames (files) is completed, press the "DISP/BACK" button.

- Pressing the "MENU/OK" button repeatedly erases consecutive frames (files). Take care not to erase a frame (file) by mistake.
- Protected frames (files) cannot be erased. Unprotect the frames (files) before erasing them (➡P.58).

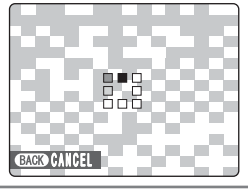


ALL FRAMES

Pressing the "MENU/OK" button erases all the frames (files).

- Protected frames (files) cannot be erased. Unprotect the frames (files) before erasing them (➡P.58).

◆ To stop the procedure midway ◆

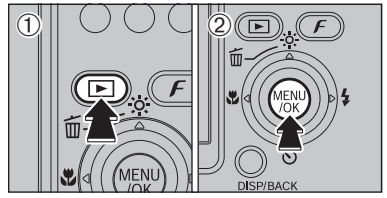


Press the "DISP/BACK" button to cancel erasing of all the frames (files). Some unprotected frames (files) will be left unerased.

- Even if you stop the procedure immediately, some frames (files) will be erased.

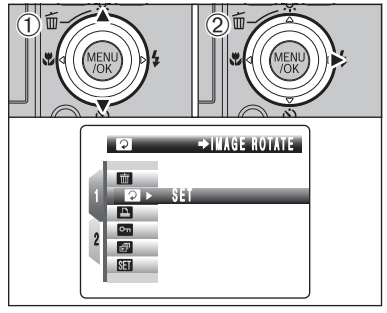
PLAYBACK MENU IMAGE ROTATE

1



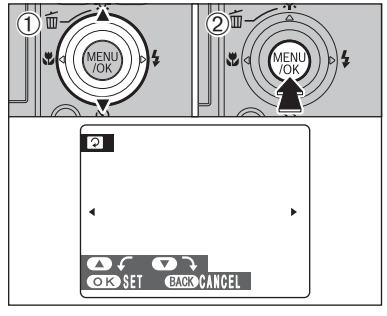
Use this mode to rotate an image photographed with FinePix Z1.
① Press the "▶" button to turn the camera on in Playback mode.
② Press the "MENU/OK" button to display the menu on the LCD monitor.

2



① Press "▲" or "▼" to select "IMAGE ROTATE".
② Press "▶".

3



① Press "▲" or "▼" to rotate and display the image.
② Press "MENU/OK" button to confirm your selection. Press the "DISP/BACK" button to cancel rotating the image.

- An image can be rotated when playing back using FinePix Z1 and FinePix Viewer (included).

◆ Images that can be rotated ◆

You may not be able to rotate images that were shot with a camera other than the FinePix Z1.

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HOW TO SPECIFY PRINT OPTIONS (DPOF)

DPOF stands for Digital Print Order Format and refers to a format that is used for recording printing specifications for images shot using a digital camera on media such as an **xD-Picture Card**. The recorded specifications include information on which frames are to be printed.

This section gives a detailed description of how to order your prints with the FinePix Z1.

✻ Some printers do not support date and time imprinting or specification of the number of prints.
✻ The warnings shown below may appear while specifying the prints.

"DPOF SPECIFIED. ERASE OK ?"
"DPOF SPECIFIED. ERASE ALL OK ?" (➡P.49)

When erasing the image, the DPOF setting for that image is deleted at the same time.

"RESET DPOF OK ?" (➡P.53)

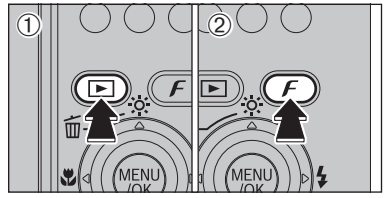
When inserting an **xD-Picture Card** that contains images specified for printing by another camera, those print specifications are all reset and replaced by the new print specifications.

[DPOF FILE ERROR] (➡P.102)

Up to 999 images can be specified on the same **xD-Picture Card**.

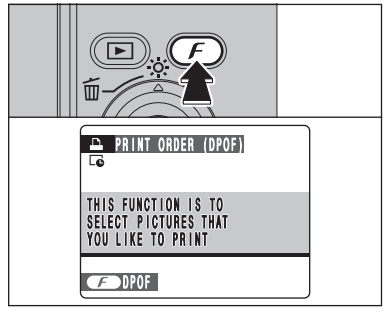
SPECIFYING DPOF SETTINGS EASILY

1



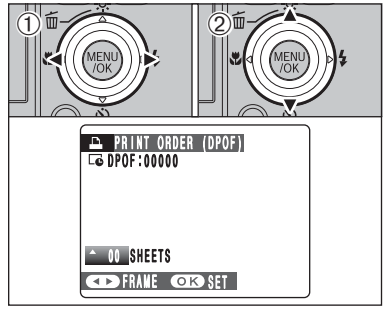
① Press the "▶" button to turn the camera on in Playback mode.
② Press the "F" button to display the menu on the LCD monitor.
"WITH DATE" is selected at factory default setting. See P.55 for information on selecting "WITH DATE" or "WITHOUT DATE".

2



Press the "F" button.
If there were previous DPOF settings, perform step **3**.

3

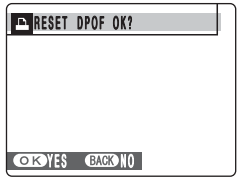


① Press "◀" or "▶" to display the frame (file) for specifying DPOF settings.
② Press "▲" or "▼" to set a value up to 99 as the number of copies of the frame (file) to be printed. For frames (files) that you do not want printed, set the number of prints to 0 (zero).
To specify more DPOF settings, repeat steps ① and ②.

- Prints of up to 999 frames (files) can be ordered on the same **xD-Picture Card**.
- DPOF settings cannot be specified for movie.
- Images photographed with a camera other than FinePix Z1 may not be specified DPOF settings.

Pressing the "DISP/BACK" button while choosing settings will cancel all current settings. If there were previous DPOF settings, only the modifications are cancelled.

◆ When DPOF settings were specified on another camera ◆



When the data includes a frame (file) with DPOF settings that were specified on another camera, "RESET DPOF OK ?" appears.
Pressing the "MENU/OK" button erases all of the DPOF settings already specified for each frame (file). Specify the DPOF setting for each frame (file) again.

- Press the "DISP/BACK" button to leave the previous settings unchanged.

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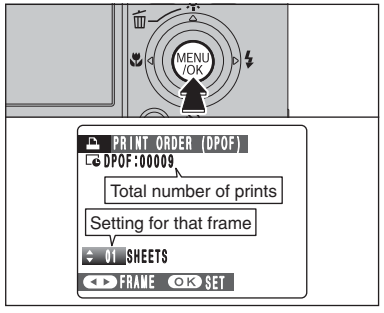
Continued

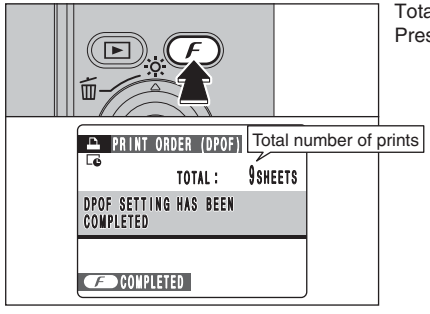
SPECIFYING DPOF SETTINGS EASILY

4



Always press the "MENU/OK" button after the settings are completed.
Pressing the "DISP/BACK" button cancels those settings.

5



Total number of prints appears on the LCD monitor.
Press the "F" button.

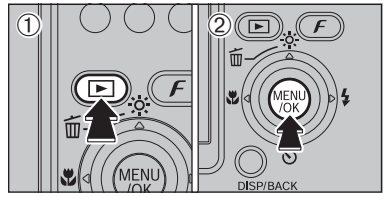
◆ Canceling DPOF setting ◆

To cancel the DPOF setting for a specified frame (file):
①Press "◀" or "▶" to select the frame (file) with the DPOF setting you want to cancel.
②Set the number of prints to 0 (zero).
To cancel the DPOF setting for another frame (file), repeat steps ① and ②.
Press the "MENU/OK" button to complete the settings.

● DPOF ALL RESET (➡P.57).

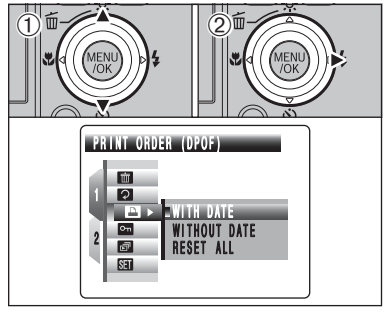
DPOF SET FRAME

1

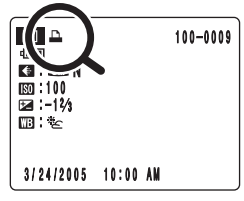


① Press the "▶" button to turn the camera on in Playback mode.
② Press the "MENU/OK" button to display the menu on the LCD monitor.

2

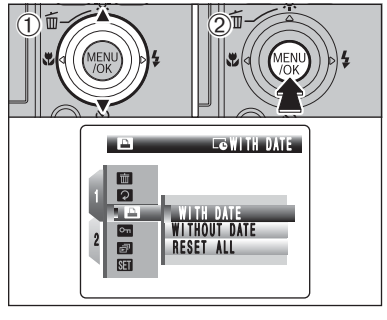


① Press "▲" or "▼" to select "🖶" PRINT ORDER (DPOF).
② Press "▶".



"🖶" appears on the LCD monitor during playback when the image has specified DPOF settings.

3



① Press "▲" or "▼" to select "WITH DATE" or "WITHOUT DATE". Selecting "WITH DATE" will cause the date to be imprinted on your prints.
② Press the "MENU/OK" button.

When selecting the "WITH DATE" setting, the date is imprinted on your shots using the Print Service or a DPOF-compatible printer (depending on the printer specifications, the date may not be printed in some cases).

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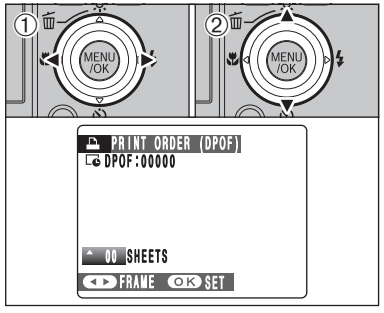
Continued

PLAYBACK MENU

DPOF SET FRAME

4



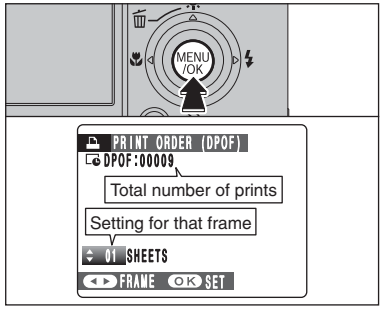
① Press "◀" or "▶" to display the frame (file) for specifying DPOF settings.
② Press "▲" or "▼" to set a value up to 99 as the number of copies of the frame (file) to be printed. For frames (files) that you do not want printed, set the number of prints to 0 (zero).

To specify more DPOF settings, repeat steps ① and ②.

- Prints of up to 999 frames (files) can be ordered on the same **xD-Picture Card**.
- DPOF settings cannot be specified for movie.
- Images photographed with a camera other than FinePix Z1 may not be specified DPOF settings.

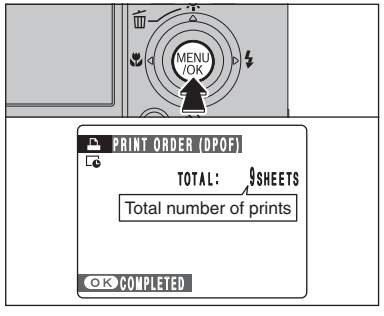
Pressing the "DISP/BACK" button while choosing settings will cancel all current settings. If there were previous DPOF settings, only the modifications are cancelled.

5



Always press the "MENU/OK" button after the settings are completed.
Pressing the "DISP/BACK" button cancels those settings.

6



Total number of prints appears on the LCD monitor. Press the "MENU/OK" button.

◆ Canceling DPOF setting ◆

To cancel the DPOF setting for a specified frame (file):
①Press "◀" or "▶" to select the frame (file) with the DPOF setting you want to cancel.
②Set the number of prints to 0 (zero).
To cancel the DPOF setting for another frame (file), repeat steps ① and ②.
Press the "MENU/OK" button to complete the settings.

● DPOF ALL RESET (➡P.57).

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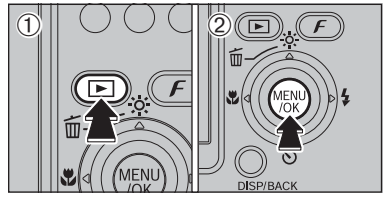
PLAYBACK MENU

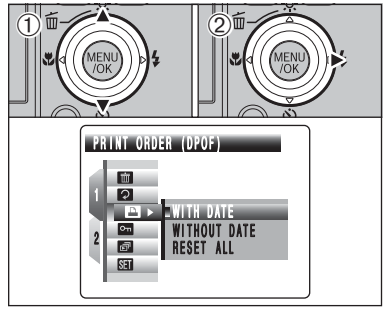
DPOF ALL RESET

1

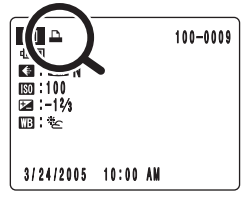


① Press the "▶" button to turn the camera on in Playback mode.
② Press the "MENU/OK" button to display the menu on the LCD monitor.

2

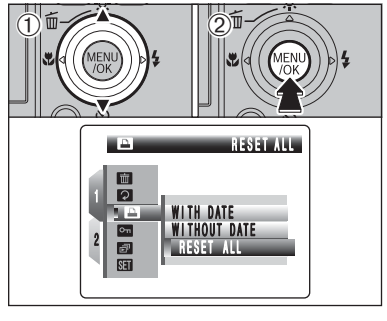


① Press "▲" or "▼" to select "🖶" PRINT ORDER (DPOF).
② Press "▶".



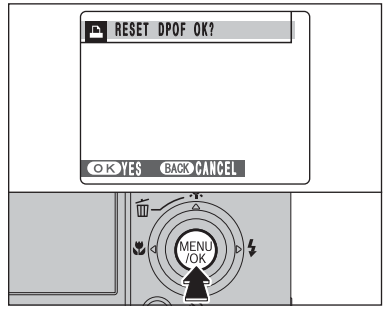
"🖶" appears on the LCD monitor during playback when the image has specified DPOF settings.

3



① Press "▲" or "▼" to select "RESET ALL".
② Press the "MENU/OK" button.

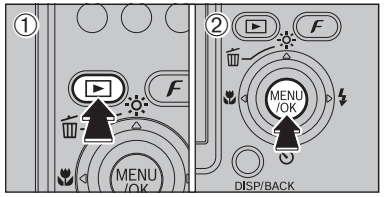
4



A message appears on the LCD monitor.
To reset all the DPOF settings, press the "MENU/OK" button.

PROTECTING IMAGES: FRAME / SET ALL / RESET ALL

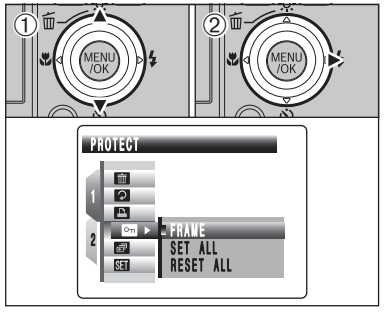
1



① Press the "▶" button to turn the camera on in Playback mode.
② Press the "MENU/OK" button to display the menu on the LCD monitor.

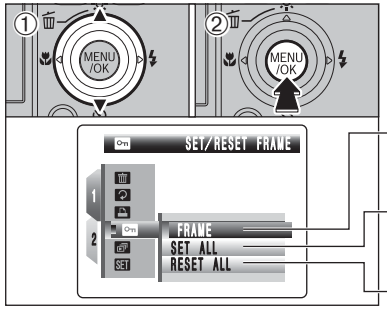
Protection is a setting that prevents frames (files) from being accidentally erased. However, the "FORMAT" function erases all the frames (files), including protected frames (files) (➡P.78).

2



① Press "▲" or "▼" to select "🔑" PROTECT.
② Press "▶".

3



① Press "▲" or "▼" to select "FRAME", "SET ALL" or "RESET ALL".
② Press the "MENU/OK" button to confirm your selection.

FRAME

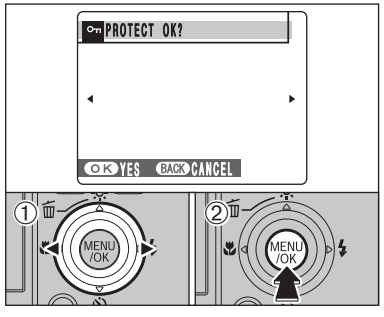
Protects or unprotects only the selected frame (file).

SET ALL

Protects all the frames (files).

RESET ALL

Removes the protection from all the frames (files).



FRAME SET

① Press "◀" or "▶" to select the protecting frame (file).
② Press the "MENU/OK" button to protect the currently displayed frame (file).
To protect another frame (file), repeat steps ① and ②. When protecting frames (files) is completed, press the "DISP/BACK" button.

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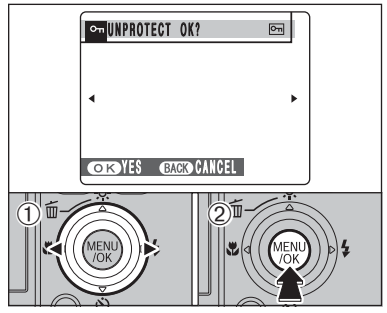
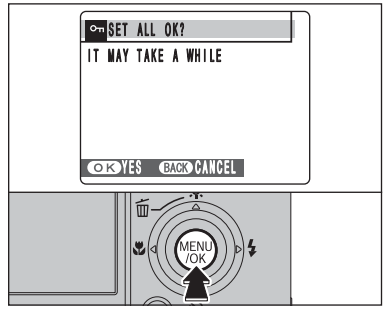


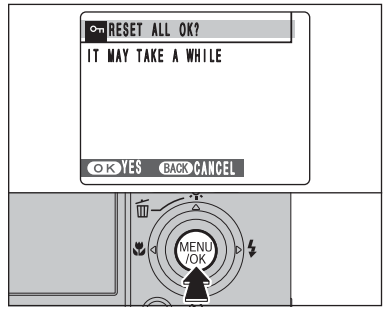
FRAME RESET

① Press "◀" or "▶" to select the protected frame (file).
② Press the "MENU/OK" button to unprotect the displayed frame (file).



SET ALL

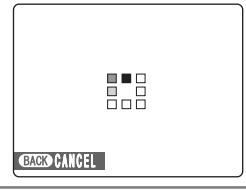
Press the "MENU/OK" button to protect all the frames (files).



RESET ALL

Press the "MENU/OK" button to unprotect all the frames (files).

◆ To stop the procedure midway ◆

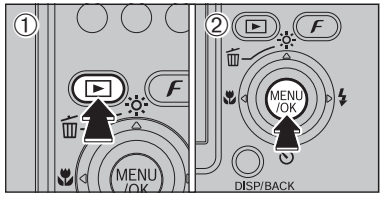


If the images are very large, protecting or unprotecting all the frames (files) may take some time.
If you want to take a picture or record a movie during the procedure, press the "DISP/BACK" button. To return to protecting or unprotecting all the frames (files), see the procedure on P.58 and begin at step **1**.

PLAYBACK MENU

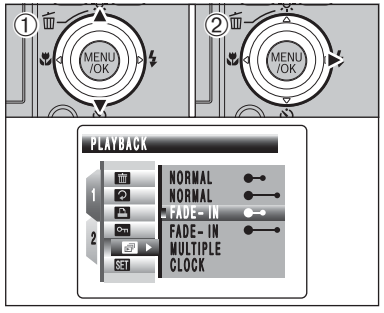
AUTOMATIC PLAYBACK

1



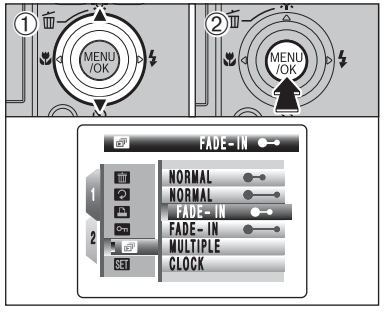
① Press the "▶" button to turn the camera on in Playback mode.
② Press the "MENU/OK" button to display the menu on the LCD monitor.

2



① Press "▲" or "▼" to select "🖼" PLAYBACK.
② Press "▶".

3



① Press "▲" or "▼" to select the playback interval and the type of image transition.
② Press the "MENU/OK" button. The image frames are advanced and played back.

Press "◀" or "▶" to advance or go back through the images when selecting "NORMAL" and "FADE-IN".

To interrupt automatic playback, press "MENU/OK" button.

- Press the "DISP/BACK" button once during playback to display on-screen help.
- The Auto power off function does not operate during playback.
- Movie starts automatically. When the movie ends, the playback function moves it on.

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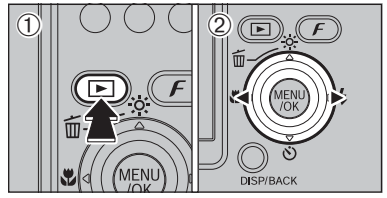
PLAYBACK MENU

RECORDING VOICE MEMOS

1

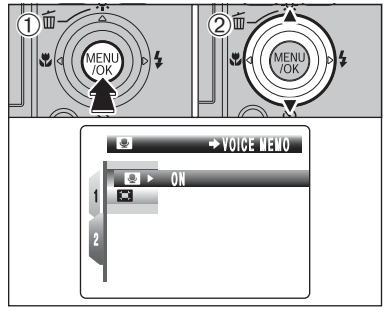


Voice memos of up to 30 seconds can be added to still images.

- **Audio recording format**
  WAVE (➡P.107)
  PCM recording format
- **Audio file size**
  Approx. 480 KB (for a 30-second voice memo)

① Press the "▶" button to turn the camera on in Playback mode.
② Press "◀" or "▶" to select the image to add a voice memo.

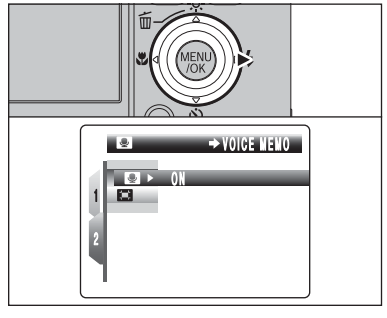
2



① Press the "MENU/OK" button to display the menu on the LCD monitor.
② Press "▲" or "▼" to select "🎙" VOICE MEMO.

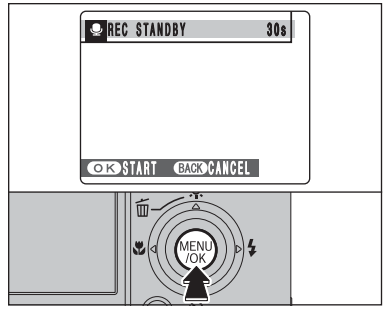
- Voice memos cannot be added to movies.
- When [PROTECTED FRAME] appears, unprotect the frame.

3

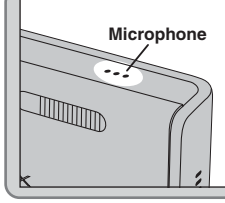


Press "▶".

4



"REC STANDBY" appears on the LCD monitor.
Press the "MENU/OK" button to begin recording.



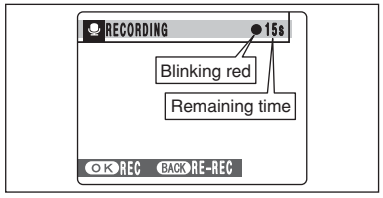
Face the microphone on the front of the camera to record your comment. Hold the camera about 20 cm (7.9 in.) away for the best results.

Continued

PLAYBACK MENU

RECORDING VOICE MEMOS

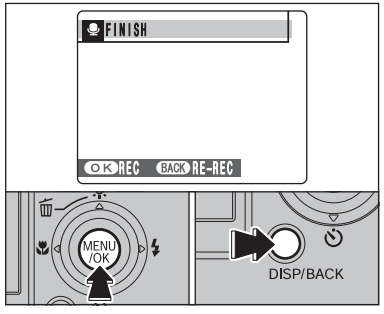
5



The remaining recording time appears during recording.

To end your comment during recording, press the "MENU/OK" button.

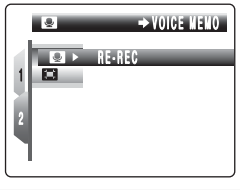
6



After 30 seconds of recording, "FINISH" appears on the LCD monitor.

To finish
Press the "MENU/OK" button.
To re-record your comment
Press the "DISP/BACK" button.

◆ When the image already has a voice memo ◆



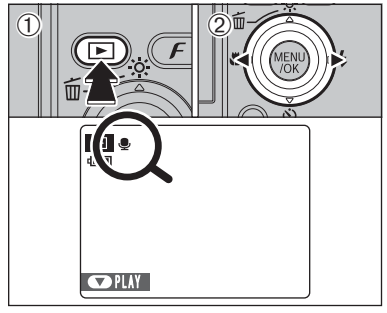
When you select an image that already has a voice memo, a screen appears in which you can select whether to re-record the voice memo.

When [PROTECTED FRAME] appears, unprotect the frame.

PLAYBACK MENU

PLAYING BACK VOICE MEMOS

1

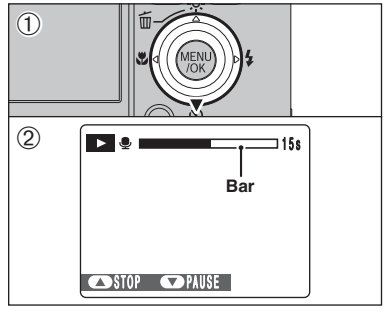


① Press the "▶" button to turn the camera on in Playback mode.
② Press "◀" or "▶" to select an image file that has a voice memo.

Voice memos cannot be played back using multi-frame playback. Press the "DISP/BACK" button to select single-frame playback.

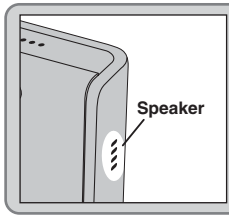
"🎙" appears on the LCD monitor when an image file with a voice memo is selected.

2



① Press "▼" to play the voice memo.
② The playback time appears on the LCD monitor along with a progress bar.

When the sound is difficult to hear, adjust the volume (➡P.64).



Take care not to block the speaker.

■ Playing back voice memos

	Control	Description
Playback		The voice memo stops when playback ends.
Pause/Resume		Pauses the voice memo during playback. Press "▼" again to resume playback.
Stop		Stops playback. ✻ Press "◀" or "▶" while voice memo playback is stopped to go back to the previous file or advance to the next file respectively.
Fast forward/ Rewind		Press "◀" or "▶" during playback to skip forwards or backwards through the voice memo. ✻ These buttons do not function while playback is paused.

◆ Playing voice memo files ◆

You may not be able to play back some voice memo files recorded on other cameras.

3 Advanced Features

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Continued

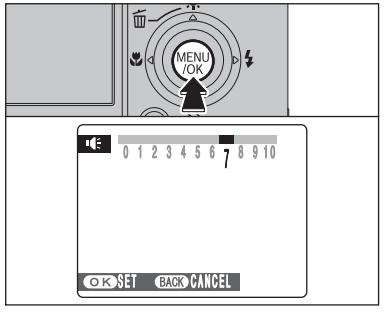
PLAYBACK MENU

PLAYING BACK VOICE MEMOS

Adjusting volume of voice memos

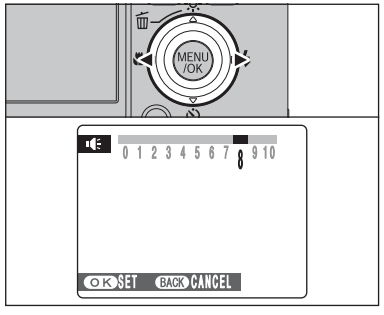
Volume can be adjusted while playing back voice memos. Adjust the volume to suit your condition.

1



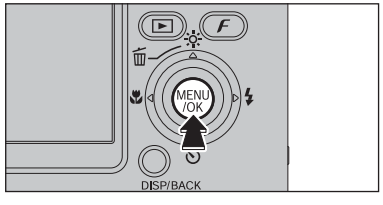
Press the “MENU/OK” button while playing back voice memo. The voice memo is paused during playback.

2



Press “◀” or “▶” to adjust the volume.

3

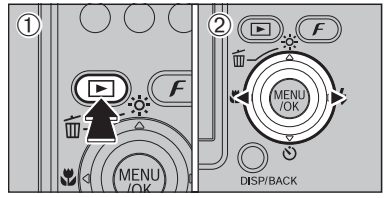


Press the “MENU/OK” button to confirm the new setting. Camera starts to play back the voice memo.

PLAYBACK MENU

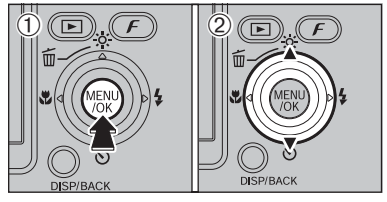
TRIMMING

1



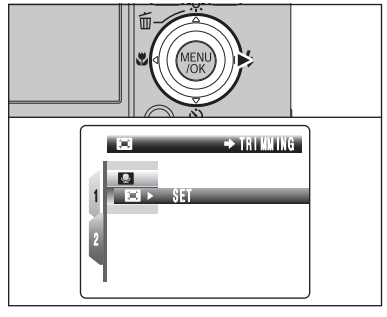
① Press the “▶” button to turn the camera on in Playback mode.
② Press “◀” or “▶” to select the trimming frame (file).

2



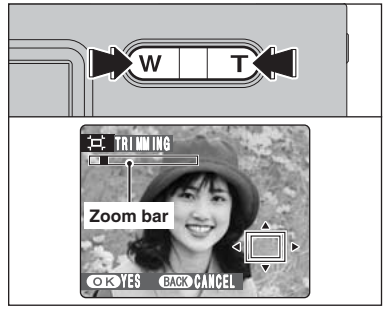
① Press the “MENU/OK” button to display the menu on the LCD monitor.
② Press “▲” or “▼” to select “ TRIMMING.

3



Press “▶”.

4



Press the “**T**” or “**W**” button to zoom in or out on an image. A zoom bar appears on the LCD monitor.

Press the “DISP/BACK” button to return to single-frame playback.

A saved image size varies depending on the zoom scale. For 0.3M, the “OK YES” option appears in yellow.

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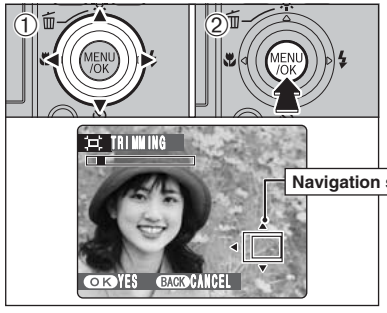
Continued

PLAYBACK MENU

TRIMMING

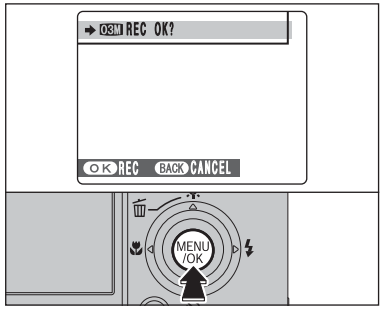
5



① Press "▲", "▼", "◀" or "▶" to display another part of the image.
The current displayed image appears on the navigation screen.
② Press the "MENU/OK" button to trim the image.

Press the "DISP/BACK" button to return to single-frame playback.

6



Check the saved image size and press the "MENU/OK" button. The trimmed image is added as a separate file in the final frame.

■ Image sizes

	Sample uses
3M	Printing at up to 6R (15.2 × 20.3 cm) / A5 size
2M	Printing at up to 4R (10.2 × 15.2 cm) / A6 size
03M	To use for e-mail or web site

When "3:2" quality setting is selected, the image is trimmed to normal size (4:3 aspect ratio).

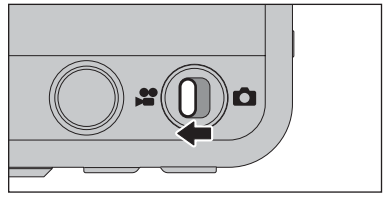
◆ Images that can be trimmed ◆

You may not be able to trim images that were shot with a camera other than the FinePix Z1.

MOVIE MODE

RECORDING MOVIES

1



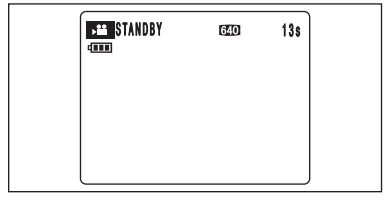
Set the Mode switch to "🎥".
Use "🎥" Movie mode to record movies with sound.

- **Specifications**
  Motion JPEG (➡P.107) with monaural sound
- **Quality selection method**
  640 (640 × 480 pixels)
  320 (320 × 240 pixels)
- **Frame rate** (➡P.107)
  30 frames per second (fixed)

See P.69 for information on changing the quality mode.
The available recording time for a movie may decrease depending on the amount of free space on the **xD-Picture Card**.
Because a movie is recorded onto the **xD-Picture Card** as it is saved, it cannot be recorded correctly if the camera suddenly loses power (if you open the battery cover or disconnect the AC power adapter).

It may not be possible to playback your movies on other cameras.

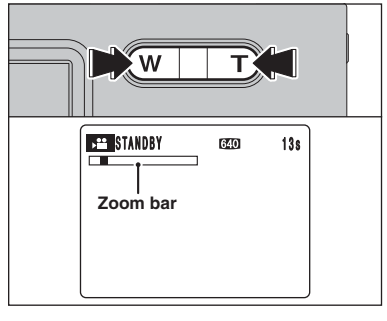
2



The available recording time and "STANDBY" appear on the LCD monitor.

Because sound is recorded concurrently with the images, make sure that you do not cover the microphone with a finger, etc. (➡P.8).

3



Press the "**T**" or "**W**" button to zoom in or out before recording. You must zoom beforehand as you cannot zoom during recording.

- **Optical zoom focal length (35 mm camera equivalent)**
  Approx. 36 mm to 108 mm
  Max. zoom scale: 3×
- **Focal range**
  Approx. 60 cm (2.0 ft.) to infinity

3 Advanced Features

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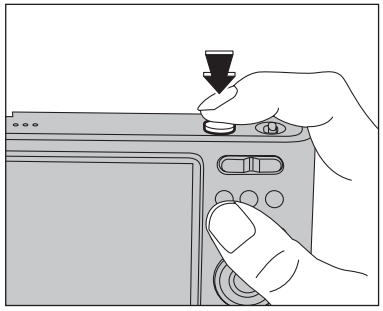
Continued

4

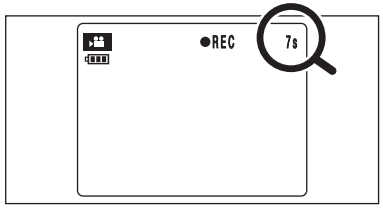


Press the shutter button down fully to start recording.

- The brightness and color of the LCD monitor shown during movie recording may differ from those shown before recording begins.
- There is no need to hold down the shutter button.
- Camera operation noises may be recorded during movie shooting.

Pressing the shutter button down fully fixes the focus, however the exposure and white balance are adjusted to the scene being shot.

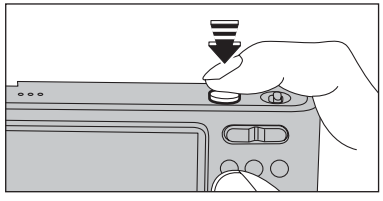
5



A counter appears in the top-right corner of the LCD monitor during recording. It shows the remaining time.

- If the brightness of the subject changes during movie recording, the sound of lens operation may be recorded.
- Some wind noise may be recorded in shots taken outdoors.
- When the remaining time runs out, recording ends and the movie is saved onto the **xD-Picture Card**.

6



Press the shutter button down halfway during recording, recoding ends.

- If recording is stopped immediately after it begins, 1 second of the movie is recorded onto the **xD-Picture Card**.

Available recording times

■ Recording times per xD-Picture Card

✻ These figures are the available recording times using a new **xD-Picture Card** formatted on the camera. The actual recording times will vary depending on the free space available on the **xD-Picture Card**.

	Quality	
	640 (30 frames per second)	320 (30 frames per second)
DPC-16 (16 MB)	13 sec.	26 sec.
DPC-32 (32 MB)	27 sec.	54 sec.
DPC-64 (64 MB)	55 sec.	109 sec.
DPC-128 (128 MB)	111 sec.	219 sec.
DPC-256 (256 MB)	223 sec.	7.3 min.
DPC-512/M512 (512 MB)	7.4 min.	14.6 min.
DPC-M1GB (1 GB)	14.9 min.	29.3 min.

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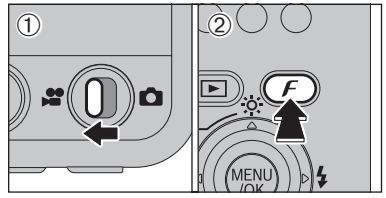
1

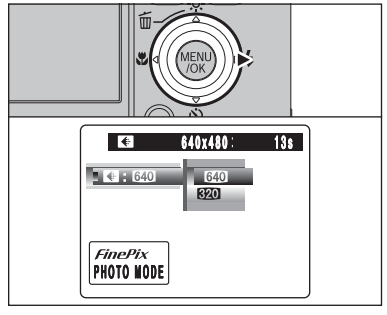


① Set the Mode switch to "🎥".
② Press the "F" button to display the menu on the LCD monitor.

- In "🎥" Movie mode, do not set the "ISO" (sensitivity) setting.
- In "🎥" Movie mode, do not set the "FP" FinePix COLOR setting.

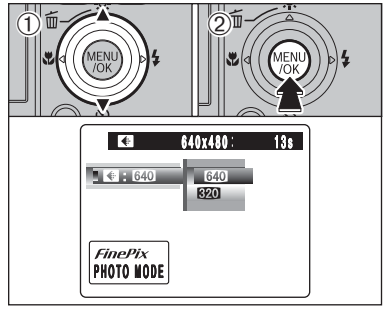
The quality setting is retained even when the camera is off or the mode setting is changed.

2



Press "▶".

3



① Press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

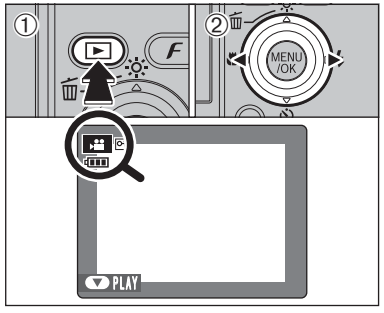
Quality settings in Movie mode

Quality mode	Sample uses
640 (640 × 480)	For better quality
320 (320 × 240)	To record longer movies

PLAYBACK MODE

PLAYING BACK MOVIES

1

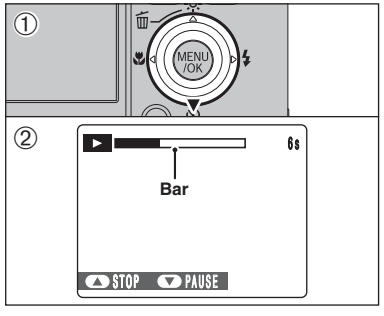


① Press the "▶" button to turn the camera on in Playback mode.
② Press "◀" or "▶" to select the movie file.

Movies cannot be played back using multi-frame playback. Press the "DISP/BACK" button to select single-frame playback.

Indicated by the "🎥" icon.

2



① Press "▼" to play the movie.
② The playback time appears on the LCD monitor along with a progress bar.

Take care not to block the speaker.
When the sound is difficult to hear, adjust the volume (➡P.71).
If the subject of the shot is very bright, white vertical streaks or black horizontal streaks may appear in the image during playback. This is normal.

■ Playing back movies

	Control	Description
Playback		Playback begins. Playback stops when the end of the movie is reached.
Pause/Resume		Pauses the movie during playback. Press "▼" again to resume playback.
Stop		Stops playback. ✻ Press "◀" or "▶" while playback is stopped to go back to the previous file or advance to the next file respectively.
Fast forward/Rewind		Press "◀" or "▶" during playback to skip forwards or backwards through the movie.
Skip playback	When paused	Press "◀" or "▶" when the movie is paused, the movie advances or goes back one frame. Hold down "◀" or "▶" to move through the frames quickly.

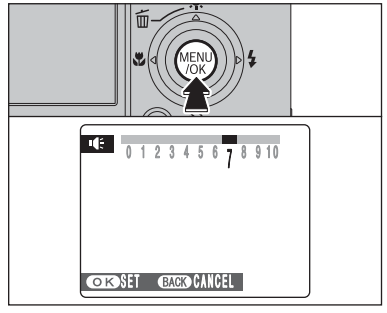
◆ Playing movie files ◆

- You may not be able to play back some movie files recorded on other cameras.
- To play back movie files on a PC, save the movie file on the **xD-Picture Card** to the PC's hard disk and then play back the saved file.

Adjusting volume of movies

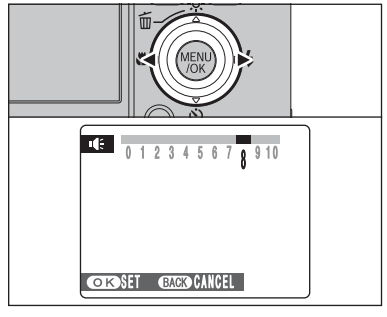
Volume can be adjusted while playing back movies. Adjust the volume to suit your condition.

1



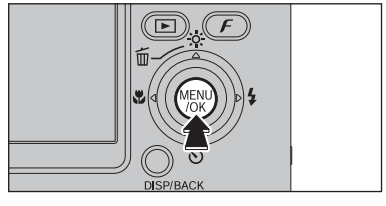
Press the "MENU/OK" button while playing back movie. The movie is paused during playback.

2



Press "◀" or "▶" to adjust the volume.

3



Press the "MENU/OK" button to confirm the new setting. Camera starts to play back the movie.

3 Advanced Features

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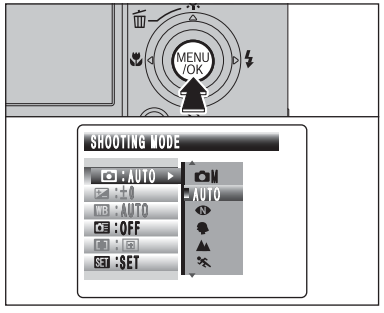
SET USING THE SET-UP SCREEN

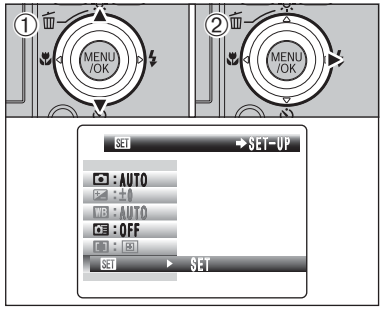
1



Press the “MENU/OK” button to display the menu on the LCD monitor.

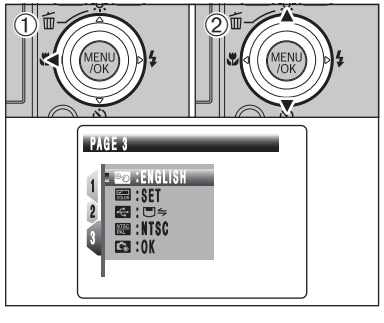
Always turn the camera off when replacing the battery. Opening the battery cover or disconnecting the AC power adapter without turning the camera off may cause the camera settings to revert to the factory default values set at shipment.

2



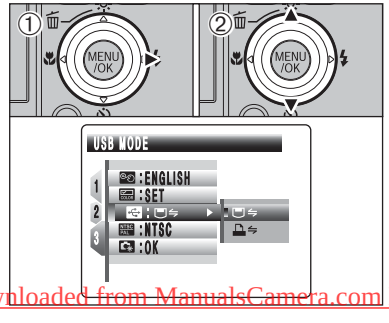
① Press “▲” or “▼” to select “SET” SET-UP.
② Press “▶”.

3



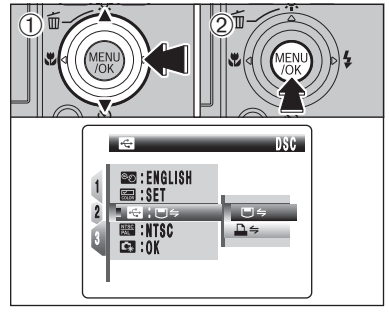
① Press “◀” to move to page number.
② Press “▲” or “▼” to select the page.

4



① Press “▶” to move to menu item.
② Press “▲” or “▼” to select the menu item.

5



① Press “▶” to select a menu option.
Press “▲” or “▼” to change the setting. Press “▶” for “FORMAT”, “DATE/TIME”, “TIME DIFFERENCE”, “BACKGROUND COLOR” or “RESET”.
② After you have changed the settings, press the “MENU/OK” button to confirm the changes.

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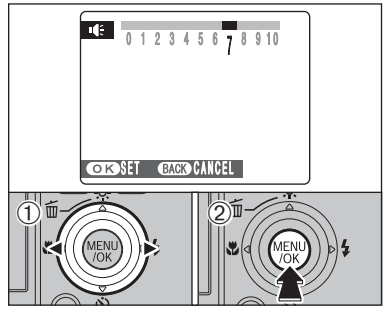
■ SET-UP menu options

	Settings	Display	Factory default	Explanation	Page
1	IMAGE DISP.	3 SEC/1.5 SEC/OFF	1.5 SEC	Specifies whether an image checking screen (photography result) appears after taking a picture. The image appears for a few moments and is then recorded. The color tones in images recorded may differ from actual color. Play back the recoded images to check them.	–
	SHUTTER VOLUME	OFF/1/2/3	2	Sets the volume of the sound emitted when the shutter operates.	–
	BEEP VOLUME	OFF/1/2/3	2	Sets the volume of the tone emitted when the camera controls are used.	–
	PLAYBACK VOLUME	SET	7	Sets the volume of playing back movie and voice memo.	75
	FRAME NO.	CONT./RENEW	CONT.	Specifies whether frame numbers are assigned consecutively from previous numbers or begin again.	75
	LCD BRIGHTNESS	SET	0	Sets the LCD monitor brightness.	76
2	DIGITAL ZOOM	ON/OFF	OFF	Specifies whether digital zoom is used together.	76
	AUTO POWER OFF	5 MIN/2 MIN/OFF	2 MIN	Sets the time of turning camera off when camera is not used.	77
	LCD POWER SAVE	ON/OFF	ON	Darkens the LCD monitor when camera is not used.	77
	FORMAT	OK	–	Erases all files.	78
	DATE/TIME	SET	–	Corrects the date and time.	17
	TIME DIFFERENCE	SET	–	Specifies the time difference settings.	78
3	言語/LANG.	ENGLISH/FRANCAIS/ DEUTSCH/ESPAÑOL/ ITALIANO/中文/한글	ENGLISH	Specifies the language used for LCD monitor display.	19
	BACKGROUND COLOR	SET	–	Specifies the colors of menu and cursor.	–
	USB MODE	⇋/⇋	⇋	⇋: DSC (Mass storage device) mode Provides a simple way to read images from an **xD-Picture Card** and store images onto an **xD-Picture Card**.	90
				⇋: PictBridge If a printer that supports PictBridge is available, images can be printed by connecting the camera directly to the PictBridge-compatible printer without using a PC.	86
	VIDEO SYSTEM	NTSC/PAL	–	Specifies whether video output is set to NTSC or PAL.	–
	RESET	OK	–	Resets all the camera settings (other than the DATE/TIME, TIME DIFFERENCE, 言語/LANG., VIDEO SYSTEM and BACKGROUND COLOR) to the factory default values set at shipment. A confirmation message appears when you press "▶". To reset the camera settings, press the "MENU/OK" button again.	–

PLAYBACK VOLUME



Adjust volume while playing back movie and voice memo.

① Press "◀" or "▶" to adjust the volume. The larger the number, the larger the volume is emitted. "0" indicates a sound deadening.

② Press the "MENU/OK" button to confirm the new setting.

FRAME NO.

	< CONT. >	< RENEW >
A	0001 ⋮ 0005	0001 ⋮ 0005
B	0006 ⋮ 0010	0001 ⋮ 0005

✻ Formatted **xD-Picture Card** used for both A and B.

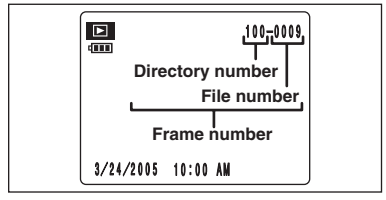
Specifies whether frame numbers are assigned consecutively from previous numbers or begin again.

CONT.: Pictures are stored beginning from the highest file number stored on the last **xD-Picture Card** used.

RENEW: Pictures are stored on each **xD-Picture Card** beginning with a file number "0001".

Setting this function to "CONT." makes file management easier as it makes sure that file names are not duplicated when images are downloaded to a PC.

- When the camera settings are "RESET", the frame number setting ("CONT." or "RENEW") is changed to "CONT." and the frame number itself does not return to "0001".
- When the **xD-Picture Card** already contains image files with file numbers higher than the highest file number on the last **xD-Picture Card**, images are stored beginning from the highest file number on the current **xD-Picture Card**.



Check the file number by viewing the image. The last 4 digits of the 7-digit number in the top right corner of the LCD monitor are the file numbers, while the first 3 digits show the directory number.

- When changing the **xD-Picture Card**, always turn the camera off before opening the battery cover. Opening the battery cover without turning the camera off may cause the frame number memory to not function.
- File number runs from 0001 to 9999. Once 9999 is exceeded, the directory number changes from 100 to 101. The maximum number is 999-9999.
- The displayed frame number may differ for images photographed on other cameras.
- When [FRAME NO. FULL] appears, see P.101.

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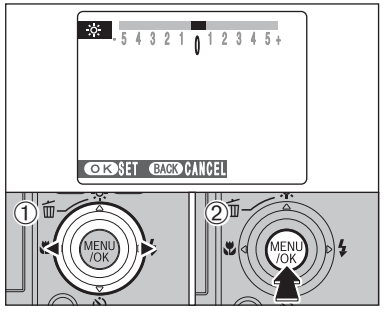
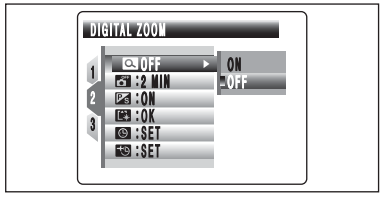
LCD BRIGHTNESS



To adjust LCD monitor brightness:
① Press "◀" or "▶" to adjust the LCD monitor brightness.
② Press the "MENU/OK" button to confirm the new setting.

DIGITAL ZOOM



Use this function to control the digital zoom.
When zooming changes between optical and digital, the position of the "■" indicator stops. Press the same Zoom button again to start the "■" indicator moving again.

If the shot goes out of focus during zooming, hold the shutter button down halfway to refocus the shot.

Zoom bar display

Optical zoom Digital zoom

W T

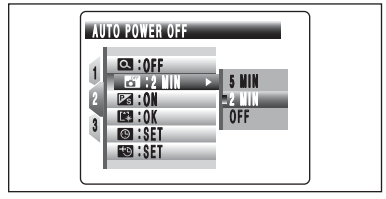
The position of the "■" indicator on the zoom bar shows the zooming status.
The area to the right of the separator indicates digital zooming, while the area to the left indicates optical zooming.

- **Optical zoom focal length***
  Approx. 36 mm to 108 mm, max. zoom scale: 3×
- **Digital zoom focal length***
  Approx. 108 mm to 616 mm,
  max. zoom scale: approx. 5.7×
- **Optical zoom focal length (3:2)***
  Approx. 38 mm to 114 mm, max. zoom scale: 3×
- **Digital zoom focal length (3:2)***
  Approx. 114 mm to 650 mm,
  max. zoom scale: approx. 5.7×

✻ 35 mm camera equivalents

Using the digital zoom allows you to enlarge your subject and shoot it. However, it will lower your image quality. Set the digital zoom when requiring it.

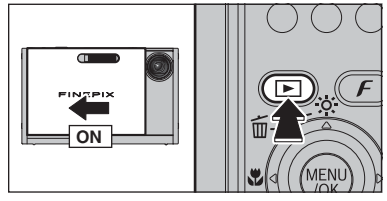
AUTO POWER OFF



When this function is enabled and the camera remains unused for 2 or 5 minutes, it is turned off. Auto power off function prevents leaving the power on.

The Auto power off function is disabled during High-speed shooting and Automatic playing back, and when a USB connection is being used.

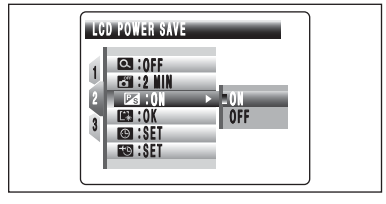
◆ To restore power to the camera ◆



When the Auto power off function (2 or 5 minutes setting) has shut the camera down:
① Close the lens cover briefly.
② Re-open the lens cover completely.

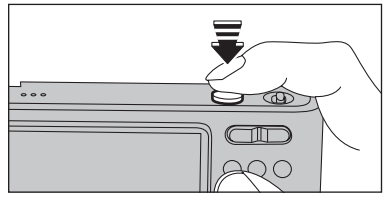
To play back images:
① Close the lens cover until it stops.
② Hold down the "▶" button for about 1 second.

LCD POWER SAVE



When this function is enabled, you can save power and get the maximum possible running time from your battery.
The LCD monitor darkens when camera is not used for 10 seconds.

The LCD power save function is disabled in High-speed shooting mode and movie mode.



When the LCD monitor is dark, pressing the shutter button down halfway recovers the LCD monitor brightness.

Pressing any other button as well as the shutter button wakes the camera up.

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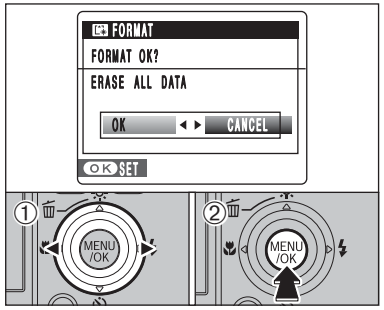
FORMAT



Initialize (format) the **xD-Picture Card** for use with the camera.
Because initializing the **xD-Picture Card** erases all the frames (files), including protected frames (files). Back up important frames (files) onto your PC or another media.

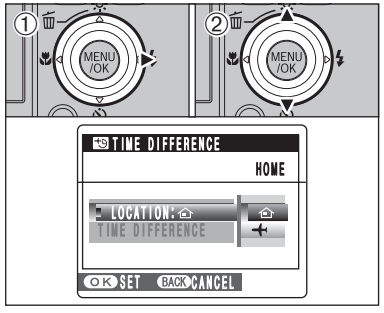
① Press "◀" or "▶" to select "OK".
② Pressing the "MENU/OK" button erases all the frames (files) and initializes the **xD-Picture Card**.

When [CARD ERROR], [WRITE ERROR], [READ ERROR] or [CARD NOT INITIALIZED] appears, see P.101 for information before formatting the **xD-Picture Card**.

TIME DIFFERENCE

This function sets a time difference relative to the date and time currently set. When this setting is enabled, the specified time difference is applied when pictures are taken.
Use this function when traveling to destinations in different time zones.

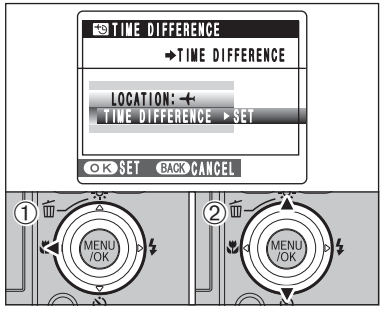
1



① Press "▶".
② Press "▲" or "▼" to change between "⌂" HOME and "✈" LOCAL.
To set the time difference, select "✈" LOCAL.

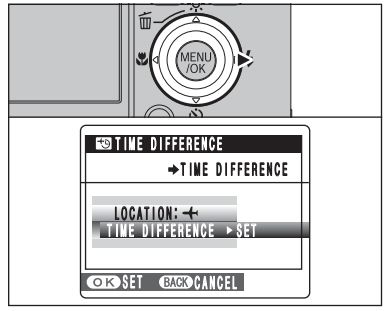
⌂ **HOME:** Your home time zone
✈ **LOCAL:** Your destination time zone

2



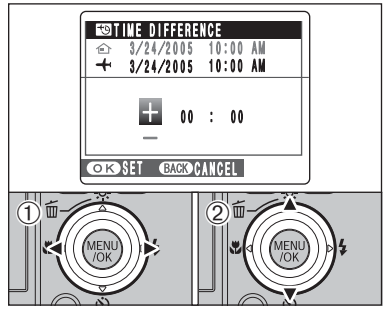
① Press "◀".
② Press "▲" or "▼" to select "TIME DIFFERENCE".

3



Press "▶".

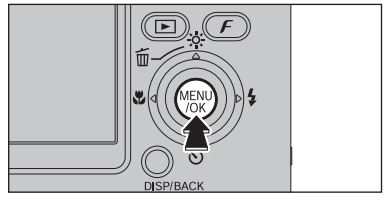
4



① Press "◀" or "▶" to select +, –, hour and minute.
② Press "▲" or "▼" to correct the setting.

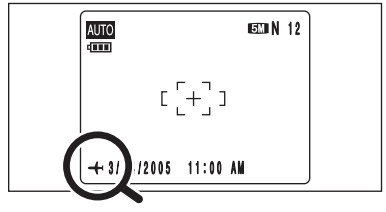
- **Available time setting**
  –23:45 to +23:45 (in 15-minute increments)

5



Always press the "MENU/OK" button after the settings are completed.

6



When the Photography mode is selected with world time set, "✈" appears on the LCD monitor for 3 seconds.

Upon returning from a trip, always change the World time setting back to "⌂" HOME.

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5.1 INSTALLATION ON A Windows PC

Pre-installation checklist

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Operating System*1	Windows 98 (including the Second Edition) Windows Millennium Edition (Windows Me) Windows 2000 Professional*2 Windows XP Home Edition*2 Windows XP Professional*2
CPU	200 MHz Pentium or better recommended (800 MHz Pentium Ⅲ or better recommended for Windows XP)
RAM	64MB minimum (128 MB minimum for Windows XP) 256 MB or better recommended
Hard disk space	Amount required for installation: 450 MB minimum Amount required for operation: 600 MB minimum (When using ImageMixer VCD2 LE for FinePix: 2 GB or better)
Display	800 × 600 pixels or better, 16-bit color or better (When using ImageMixer VCD2 LE for FinePix: 1024 × 768 or better)
Internet connection*3	• To use the FinePix Internet Service or mail attachment function: An Internet connection or e-mail transmission software is needed • Connection speed: 56 k or better recommended

*1 Models with one of the above operating systems pre-installed.
*2 When you install the software, login using a system administrator account (e.g. “Administrator”).
*3 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.

◆ Notes ◆

- Connect the camera directly to the PC using the USB cable (mini-B). The software may not operate correctly when you use an extension cable or connect the camera via a USB hub.
- When your PC has more than one USB port, the camera can be connected to either port.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- Windows 95 and Windows NT cannot be used.
- Operation is not guaranteed on home-built PCs or on PCs running updated operating system software.
- When you reinstall or remove FinePixViewer, the Internet menu and your user ID and password for the FinePix Internet Service are deleted from your PC. Click the [Register now] button, enter your registered user ID and password and download the menu again.

Do not connect the camera to your PC until the software installation is completed.

1 Install FinePixViewer as instructed in the Quick start guide.

◆ Launching the installer manually ◆

① Double-click the “My Computer” icon.
✻ Windows XP users should click “My Computer” in the “Start” menu.
② Right-click “FINEPIX” (CD-ROM drive) in the “My Computer” window and select “Open”.
③ Double-click “SETUP” or “SETUP.exe” in the CD-ROM window.

✻ The way file names are displayed differs as described below depending on your PC settings.
- File extensions (3-letter suffixes indicating the file type) may be shown or hidden. (e.g. Setup.exe or Setup)
- Text may be shown normally or all in uppercase (e.g. Setup or SETUP).

◆ Installing other applications ◆

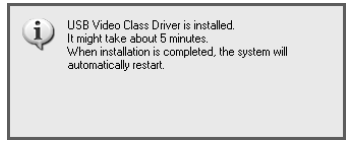
You may see messages for installing ImageMixer VCD2 LE for FinePix. Install this application as directed by the on-screen instructions.

2 Install DirectX as directed by the on-screen instructions and then restart your PC. If the latest version of DirectX is already installed on your PC, this installation is not performed.

- If the latest version is already installed, this window does not appear.
- Do not remove the CD-ROM during this procedure.

3 After restarting, the USB Video Class Driver would be installed.

- If the latest version is already installed, this window does not appear.
- The driver is only installed on Windows XP SP1.


USB Video Class Driver is installed.
It might take about 5 minutes.
When installation is completed, the system will automatically restart.

4 After restarting the PC, a message appears stating “Installation of the FinePixViewer has been completed”.

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5.2 INSTALLATION ON A Mac OS X

Pre-installation checklist

■ Hardware and software requirements

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible Mac	Power Macintosh G3*1, PowerBook G3*1, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube, or PowerBook G4, Power Macintosh G5
Operating System	Mac OS X (compatible with version 10.2.8 to 10.3.7)
RAM	192 MB minimum 256 MB or better recommended
Hard disk space	Amount required for installation: 200 MB minimum Amount required for operation: 400 MB minimum (When using ImageMixer VCD2 LE for FinePix: 2 GB or better)
Display	800 × 600 pixels or better, at least 32,000 colors (When using ImageMixer VCD2 LE for FinePix: 1024 × 768 or better)
Internet connection*2	• To use the FinePix Internet Service or mail attachment function An Internet connection or e-mail transmission software is needed • Connection speed: 56 k or better recommended

*1 Models with a USB port as a standard feature
*2 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.

◆ Notes ◆

- Connect the camera directly to the Macintosh using the USB cable (mini-B). The software may not operate correctly if you use an extension cable or connect the camera via a USB hub.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.

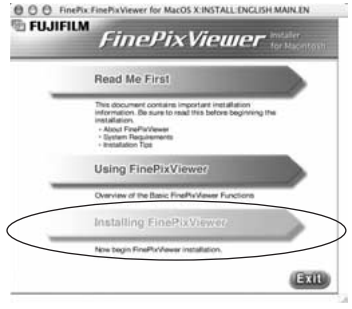
1 Turn your Macintosh on and start up Mac OS X. Do not launch any other applications.

2 When the bundled CD-ROM is loaded into the CD-ROM drive, the “FinePix” icon appears. Double-click the “FinePix” icon to open the “FinePix” volume window.

3 Double-click on “Installer for MacOS X”.

4 The Installer setup dialog appears. Click the [Installing FinePixViewer] button.

For more information on what is installed, click the [Read Me First] button and [Using FinePixViewer] button.



5 The “Authenticate” dialog appears.
Enter the name and password for the administrator account and then click the [OK] button.*

* The administrator account is the user account used for Mac OS X installation and you can confirm the user account in the Accounts dialog in the System Preferences.

6 The “License” dialog appears. Read the agreement carefully and then, if you agree to the terms of the Agreement, click the [Accept] button.

7 The “Read me” dialog appears. Click the [Continue] button.

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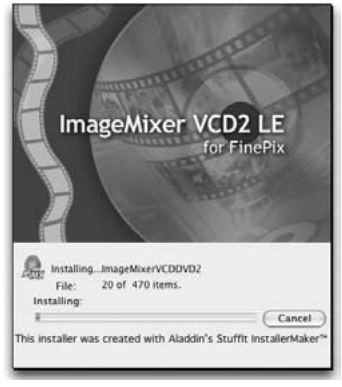
Continued

5.2 INSTALLATION ON A Mac OS X

8 The “FinePixInstallOSX” window appears.
Click the [Install] button to install FinePixViewer and RAW FILE CONVERTER LE.

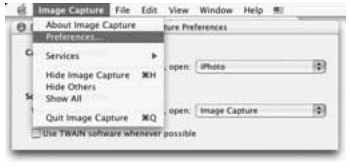


9 The ImageMixer VCD2 LE for FinePix installer automatically starts up and a window showing the installation progress appears (Installation may take several minutes).

10 The “FinePixViewer installation completed” message dialog appears. Then click exit button and close it.

11 Launch “Image Capture” from the “Applications” folder.

12 Change the Image Capture settings.
Select “Preferences...” from the “Image Capture” menu.



13 Select “Other...” from “When a camera is connected, open”.

14 Select “FPVBridge” from “FinePixViewer” folder in the “Applications” folder and click the [Open] button.

15 Select “Quit Image Capture” menu in the “Image Capture” menu.

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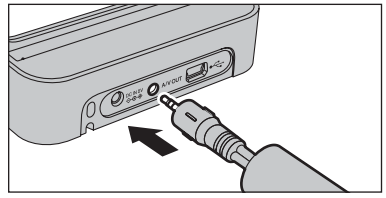
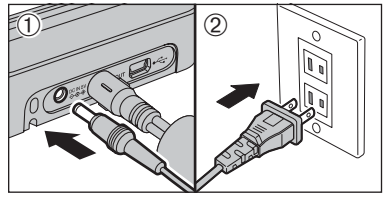
6.1 CAMERA CONNECTION (USING THE CRADLE)

1



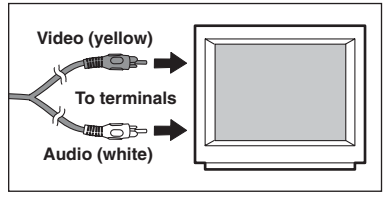
Plug the A/V cable (included) into the “A/V OUT” (Audio/Visual output) socket for cradle.

2



① Plug the AC power adapter connector into the “DC IN 5V” socket.
② Plug the AC power adapter into the power outlet.

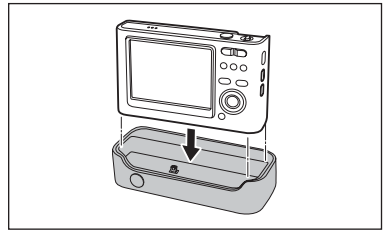
3



Plug the other end of the cable into the video/audio input socket on the TV.

- When connecting the A/V cable to TV, the LCD monitor is turned off.
- Refer to the instructions provided with your TV for more information on video/audio input for your TV.
- The image quality for movie playback is lower than for still images.

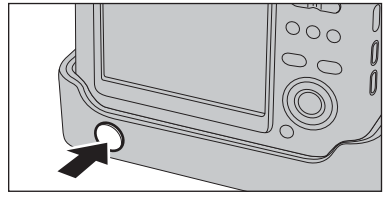
4



Close the lens cover before setting the camera in the cradle.

- Plug the camera securely and vertically into the cradle connecting plug.

5



Press the “POWER” button on the cradle to turn the camera on in Playback mode.
Automatic playback starts automatically. When not using Automatic playback function, press the “MENU/OK” button to stop it.

6.2 CONNECTING THE CAMERA DIRECTLY TO THE PRINTER — PictBridge FUNCTION

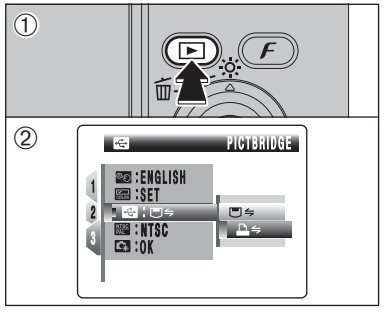
When a printer that supports PictBridge is available, images can be printed by connecting the camera directly to the PictBridge-compatible printer without using a PC.

PictBridge

In PictBridge function, images photographed on other than a camera may not be printed.

6.2.1 Specifying images for printing on the camera

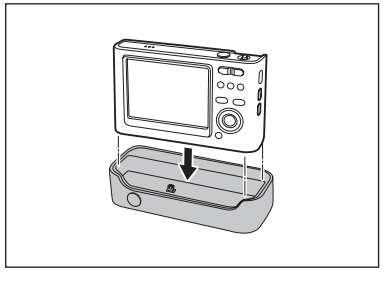
1



① Press the "▶" button for about 1 second to turn the camera on in Playback mode.
② Select "⇋" PICTBRIDGE in "USB" USB MODE in the "SET" SET-UP menu (➡P.74).
③ Turn the camera off.

Do not connect to a PC when the "USB" USB MODE setting is set to "⇋" PICTBRIDGE. See P.104 if you connect to a PC by mistake.

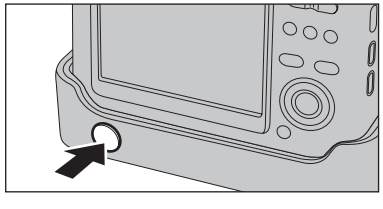
2



① Plug the AC power adapter connector into the "DC IN 5V" socket on the cradle and then plug the AC power adapter into the power outlet.
② Connect the cradle to the printer using the USB cable (mini-B).
③ Set the camera in the cradle.
④ Turn the printer on.

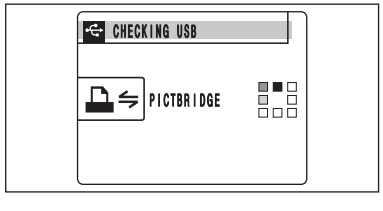
Plug the camera securely and vertically into the cradle connecting plug.
The camera cannot be used to specify printer settings such as the paper size and print quality.
Use an **xD-Picture Card** that was formatted on the camera.

3



Press the "POWER" button on the cradle.

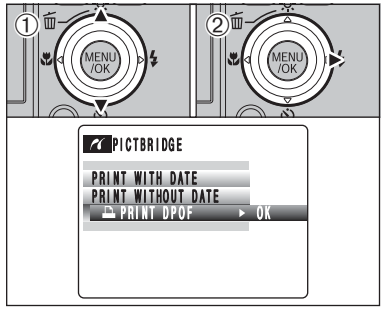
4



"CHECKING USB" appears and then the menu is displayed on the LCD monitor.

If the menu does not appear, check whether the "USB" USB MODE setting is "⇋" PICTBRIDGE.
Depending on the printer, some functions are disabled.

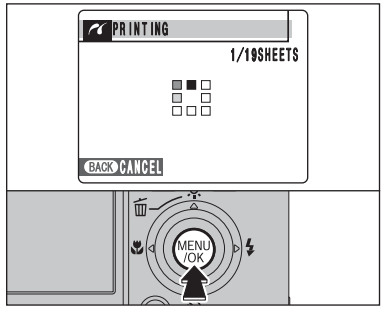
5



① Press "▲" or "▼" to select "PRINT DPOF".
② Press "▶".

When [NOT SET DPOF] appears, the DPOF settings are not specified.
To use DPOF printing, the DPOF settings must be specified on FinePix Z1 beforehand (➡P.53).
Even when "WITH DATE" is specified in the DPOF settings, the date is not inserted on printers that do not support date printing.

6



Press the "MENU/OK" button to download the data to the printer and print the frames specified in the DPOF settings.

Press the "DISP/BACK" button to cancel the printing. Depending on the printer, the printing may not be canceled immediately or printing may stop midway through. When printing stops midway, briefly turn the camera off and then on again.

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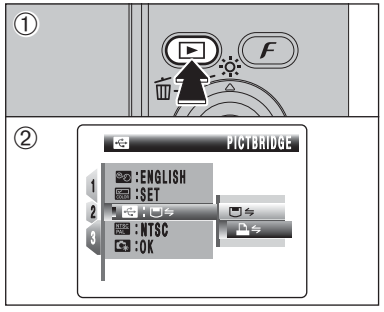
6.2 CONNECTING THE CAMERA DIRECTLY TO THE PRINTER — PictBridge FUNCTION

6.2.2 Specifying images for printing without using DPOF (single-frame printing)

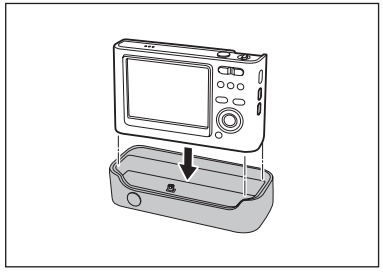
1



① Press the "▶" button for about 1 second to turn the camera on in Playback mode.
② Select "⇋" PICTBRIDGE in "USB" USB MODE in the "SET" SET-UP menu (➡P.74).
③ Turn the camera off.

Do not connect to a PC when the "USB" USB MODE setting is set to "⇋" PICTBRIDGE. See P.104 if you connect to a PC by mistake.

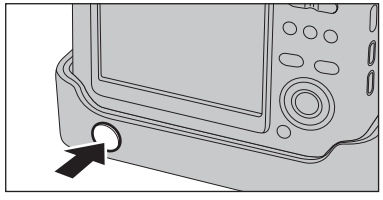
2



① Plug the AC power adapter connector into the "DC IN 5V" socket on the cradle and then plug the AC power adapter into the power outlet.
② Connect the cradle to the printer using the USB cable (mini-B).
③ Set the camera in the cradle.
④ Turn the printer on.

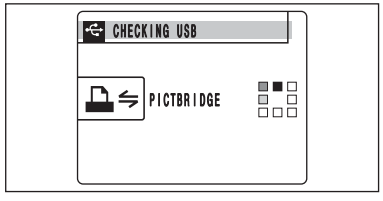
Plug the camera securely and vertically into the cradle connecting plug.
The camera cannot be used to specify printer settings such as the paper size and print quality.
Use an **xD-Picture Card** that was formatted on the camera.

3



Press the "POWER" button on the cradle.

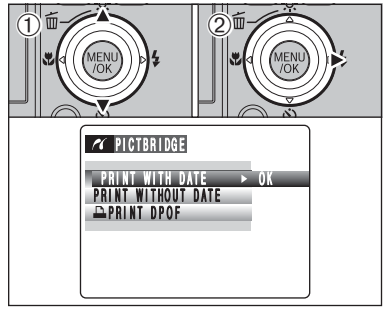
4



"CHECKING USB" appears and then the menu is displayed on the LCD monitor.

If the menu does not appear, check whether the "USB" USB MODE setting is "⇋" PICTBRIDGE.
Depending on the printer, some functions are disabled.

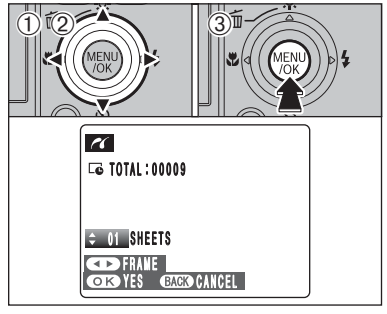
5



① Press "▲" or "▼" to select "PRINT WITH DATE" or "PRINT WITHOUT DATE". If "PRINT WITH DATE" is selected, the date is imprinted on your prints.
② Press "▶".

"PRINT WITH DATE" is not available when the camera is connected to a printer that does not support date printing.

6



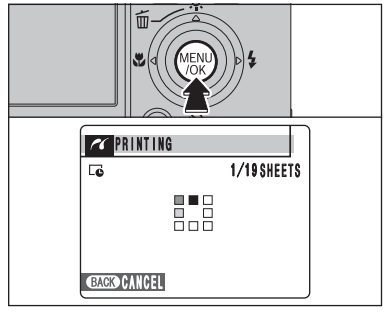
① Press "◀" or "▶" to display the frame (file) for which you want to specify PRINT settings.
② Press "▲" or "▼" to set a value up to 99 as the number of copies of the frame (file) to be printed. For frames (files) that you do not want printed, set the number of prints to 0 (zero).

To specify more PRINT settings, repeat steps ① and ②.

③ Always press the "MENU/OK" button after the settings are completed.

DPOF settings cannot be specified for movie.
Images photographed with a camera other than FinePix Z1 may not be specified DPOF settings.

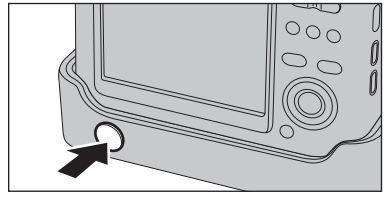
7



Press the "MENU/OK" button to download the data to the printer and start printing the specified number of prints.

Press the "DISP/BACK" button to cancel the printing. Depending on the printer, the printing may not be canceled immediately or printing may stop midway through. When printing stops midway, briefly turn the camera off and then on again.

Disconnecting the printer



① Check that "PRINTING" is not displayed on the camera's screen.
② Press the "POWER" button on the cradle to turn the power off.

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6.3 CONNECTING TO A PC (USING THE CRADLE)

6.3.1 Connecting to a PC

The “Connecting to a PC” section explains how to connect the camera to your PC using the USB cable (mini-B) and describes the functions you can use once the camera and PC are connected.

If the power cuts out during data transmission, the data will not be transmitted correctly. Always use the AC power adapter when connecting the camera to a PC.

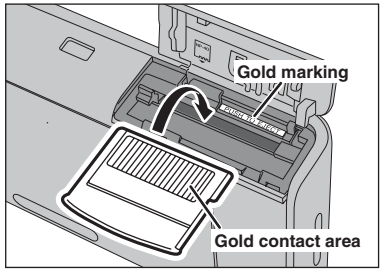
Refer to Section 5 the first time you connect the camera to your PC.
Install the software first. Do not connect the camera to the PC before installing all the software.

CD-ROM
(Software for FinePix CX)

DSC (Mass storage device) mode

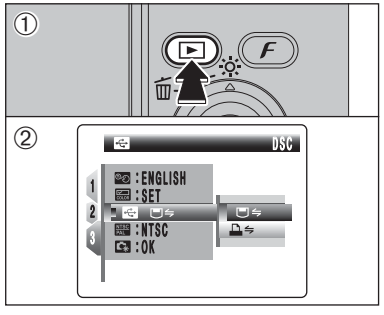
This mode provides a simple way to read images from an **xD-Picture Card** and store images onto an **xD-Picture Card**.

1



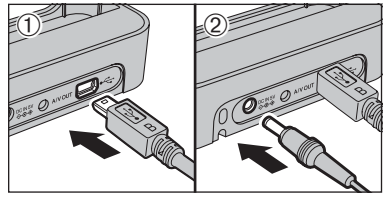
Insert an **xD-Picture Card** into the camera.

2



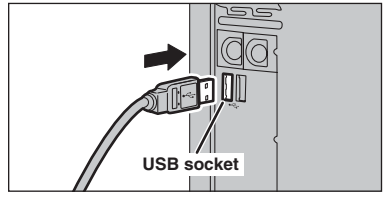
① Press the “▶” button for about 1 second to turn the camera on in Playback mode.
② Select “⇋” DSC in “” USB MODE in the “SET” SET-UP menu (➡P.74).
③ Turn the camera off.

3



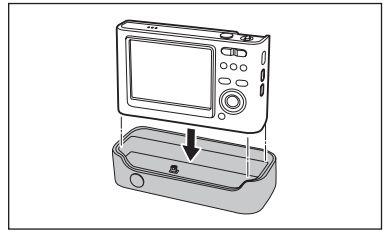
① Plug the USB cable (mini-B) into the cradle USB socket.
② Plug the AC power adapter connector into the “DC IN 5V” socket on the cradle and then plug the AC power adapter into the power outlet.

4



① Turn your PC on.
② Connect the PC to the cradle using the USB cable (mini-B).

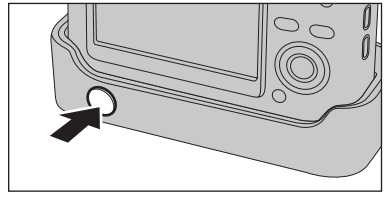
5



Set the camera in the cradle.

Plug the camera securely and vertically into the cradle connecting plug.

6



Press the “POWER” button on the cradle to turn the power on.

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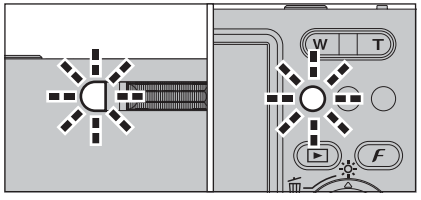
6.3 CONNECTING TO A PC (USING THE CRADLE)

Camera operation



- When the camera and PC are exchanging data, the self-timer lamp blinks and the indicator lamp blinks alternately green and orange.
- "⇋ DSC" appears on the LCD monitor.
- Auto power off is disabled during USB connection.

- Before replacing the **xD-Picture Card**, always disconnect the camera from the PC. See P.93 for information on the disconnection procedure.
- Do not disconnect the USB cable (mini-B) when the camera is communicating with a PC. See P.93 for information on the disconnection procedure.

7 Set a PC

Windows 98 / 98 SE / Me / 2000 Professional / Macintosh

- The Windows CD-ROM may also be required during installation. In this event, change CD-ROMs as directed by the on-screen instructions.

- FinePixViewer automatically starts up and the Save Image Wizard window (Save Image dialog box) appears. Follow the instructions provided on screen to save the images. To proceed without saving the images, click the [Cancel] button.

✻ Screen for Windows 2000 Professional

- A removable disk icon appears and you can use your PC to transfer files to and from the camera.

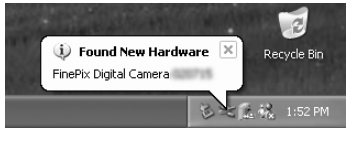
Windows

Macintosh

If the above operations do not occur, you do not have the required software programs or drivers installed on your PC. Complete the required PC setup procedures. Then reconnect the camera to your PC.

Windows XP

① The "Found New Hardware" help message appears in the bottom-right corner of your screen. This message will close when the settings are completed. No action is required.



- This step is not required for subsequent connections.

② A new removable disk icon appears in the "My Computer" window.
FinePixViewer automatically starts up and the Save Image Wizard window (Save Image dialog box) appears. Follow the instructions provided on screen to save the images. To proceed without saving the images, click the [Cancel] button.

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◆ **Regarding the icons** ◆

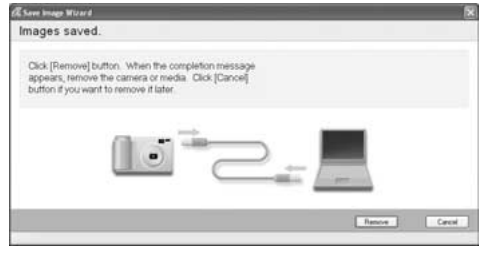
The next time you connect the camera, the removable disk drive icon's name changes to the "FinePix" icon and name.

Proceed to "USING FinePixViewer" on P.94.

6.3.2 Disconnecting the camera

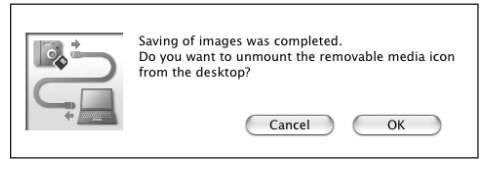
1 Windows

Once the image has been saved, the window below appears (Save Image Wizard Windows). To disconnect the camera, click the [Remove] button.

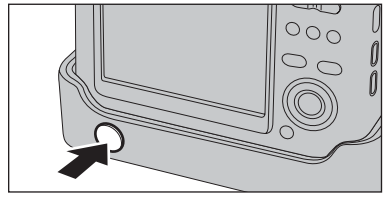

Images saved.
Click [Remove] button. When the completion message appears, remove the camera or media. Click [Cancel] button if you want to remove it later.
Remove
Cancel

Macintosh

Once the image has been saved, the window below appears. To disconnect the camera, click the [OK] button.



2



When the "It is now safe to disconnect the camera" message appears, click the [OK] button and disconnect the camera.
Press the "POWER" button on the cradle to turn the power off.

6.4 USING FinePixViewer

6.4.1 Mastering FinePixViewer

For all information on FinePixViewer functions, refer to “How to Use FinePixViewer” in the Help menu for details.

● **What is explained in “How to Use FinePixViewer”...**
“How to Use FinePixViewer” covers a range of topics, including batch processing and ordering prints.

■ Example: Looking up slide shows

① Click “How to Use FinePixViewer” in the FinePixViewer Help menu.
② Click “Basic Operation” and then click “Slide Show” in the menu that appears.
③ The “Slide Show” information appears. Press the “<<<” key to view the previous page or the “>>>” key to view the next page.

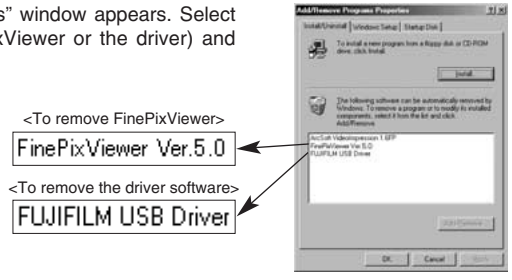
6.4.2 Uninstalling the software

Only perform this operation when you no longer require the installed software or when the software was not installed correctly.

Windows

① Check that the camera is not connected to the PC.
② Quit all currently running applications.
③ Open the “My Computer” window. Then open the “Control Panel” and double-click on “Add/Remove Programs”.

④ The “Add/Remove Programs Properties” window appears. Select the software to be uninstalled (FinePixViewer or the driver) and then click the [Add/Remove] button.



⑤ When the message appears, click the [OK] button. Check your selection carefully since the process cannot be cancelled once you click the [OK] button.

⑥ Automatic uninstallation begins.
When uninstallation ends, click the [OK] button.

Macintosh

■ Uninstalling FinePixViewer

Quit FinePixViewer. Then drag the installed FinePixViewer folder to the Trash and select “Empty Trash” in the “Finder” menu.

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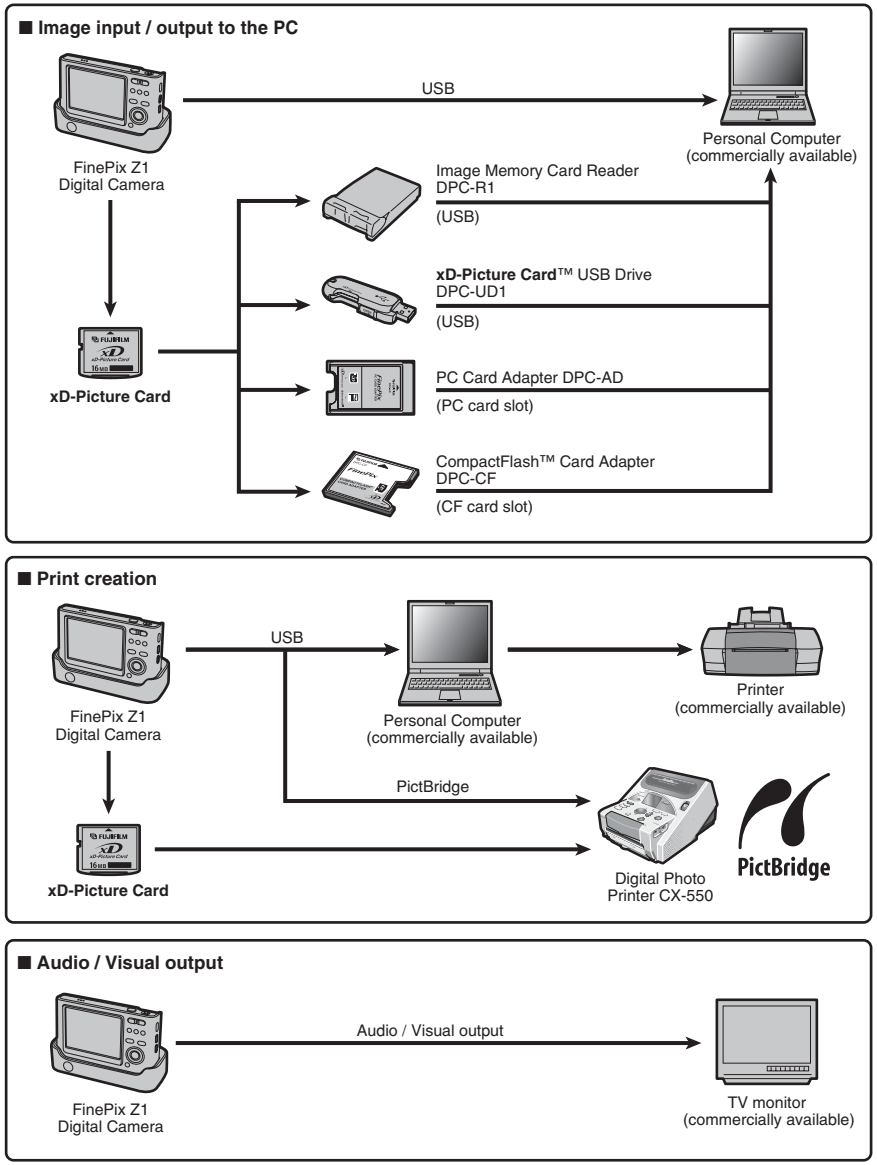
System Expansion Options

▶By using the FinePix Z1 together with other optional FUJIFILM products, your system can be expanded to fill a wide range of uses.



Accessories Guide

▶Visit the FUJIFILM web site for the latest information on camera accessories.
http://home.fujifilm.com/products/digital/index.html

● xD-Picture Card
Use the following **xD-Picture Card**s:
DPC-16 (16 MB)/DPC-32 (32 MB)/DPC-64 (64 MB)/DPC-128 (128 MB)/
DPC-256 (256 MB)/DPC-512 (512 MB)/DPC-M512 (512 MB)/DPC-M1GB (1 GB)

● Battery Charger BC-65
Quickly charges the rechargeable battery. The BC-65 reduces charging time to approx. 95 minutes (for the NP-40). Use the Battery adapter when the NP-40 is being charged. The battery adapter is supplied with the BC-65.

● Rechargeable Battery NP-40 (750 mAh)
A Lithium-ion slimline rechargeable battery

● AC Power Adapter AC-5VX
Use the AC-5VX when taking pictures or play back images for long periods or when the FinePix Z1 is connected to a personal computer.
✻ The shape of the AC power adapter, the plug and socket outlet depend on the country.

● AC Power Adapter AC-5VH/AC-5VHS
Use the AC-5VH/AC-5VHS when taking pictures or play back images for long periods or when the FinePix Z1 is connected to a personal computer.
✻ The shape of the AC power adapter, the plug and socket outlet depend on the country.

● Soft Case SC-FXZ1
This is a special case made of Leather that protects the camera against soil, dust and minor impacts when it is being carried.

● Image Memory Card Reader DPC-R1
The DPC-R1 provides a quick and easy way to transfer images back and forth between your PC and an image memory card (**xD-Picture Card** and SmartMedia). The DPC-R1 uses the USB interface for high-speed file transfer.
- Compatible with Windows 98/98 SE, Windows Me, Windows 2000 Professional, Windows XP or iMac, Mac OS 8.6 to 9.2.2, Mac OS X (10.1.2 to 10.2.2) and models that support USB as standard.
- Compatible with **xD-Picture Card** of 16 MB to 512 MB, and SmartMedia of 3.3 V, 4 MB to 128 MB.

● PC Card Adapter DPC-AD
The PC Card Adapter allows the **xD-Picture Card** and SmartMedia to be used as a PC Card Standard ATA-compliant (PCMCIA 2.1) PC card (Type II).
- Compatible with **xD-Picture Card** of 16 MB to 512 MB, and SmartMedia of 3.3 V, 2 MB to 128 MB.

● CompactFlash™ Card Adapter DPC-CF
Loading an **xD-Picture Card** into this adapter allows you to use the card as a CompactFlash card (Type I).
- Windows 95/98/98 SE/Me/2000 Professional/XP
- Mac OS 8.6 to 9.2/X (10.1.2 to 10.1.5)

● xD-Picture Card™ USB Drive DPC-UD1
This is a compact card reader for **xD-Picture Card**s. Simply plug the drive into the USB port to read and write data to an **xD-Picture Card**. (No driver installation is required except on Windows 98/98 SE.)
- Compatible with **xD-Picture Card** of 16 MB to 512 MB
- Windows 98/98 SE/Me/2000 Professional/XP
- Mac OS 9.0 to 9.2.2/X (10.0.4 to 10.2.6)

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Using Your Camera Correctly

▶ Read this information and the "Safety Notes" (➡P.108), to make sure you use your camera correctly.

■ Places to Avoid
Do not store or use the camera in the following types of locations:
- In the rain or in very humid, dirty or dusty places
- In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer
- Extremely cold places
- Places with strong vibration
- Places with smoke or steam
- Places subject to strong magnetic fields (such as near motors, transformers or magnets)
- In contact with chemicals such as pesticides
- Next to rubber or vinyl products

■ Damaged by Water or Sand
The FinePix Z1 can be damaged on the inside and outside by water and sand. When you are at the beach or close to water, make sure that the camera is not damaged by water or sand. Take care not to place the camera on a wet surface.

■ Damaged by Condensation
If the camera is carried from a cold location into a warm place, water droplets (condensation) may form on the inside of the camera or on the lens. When this occurs, turn the camera off and wait an hour before using the camera. Condensation may also form on the **xD-Picture card**. In this event, remove the **xD-Picture card** and wait a short time.

■ When the Camera is Not Used or is stored Periods of Time
If you do not intend to use the camera for a long period of time, remove the battery and the **xD-Picture card**.

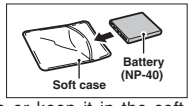
■ Cleaning Your Camera
- Use a blower brush to remove any dust on the lens or LCD monitor, and then gently wipe the camera with a soft, dry cloth. If any soil remains, apply a small amount of lens cleaning liquid to a piece of FUJIFILM lens cleaning paper and wipe gently.
- Do not scratch hard objects against the lens or LCD monitor.
- Clean the body of the camera with a soft, dry cloth. Do not use volatile substances or cleaning products these items can cause damage.

■ Using the Camera When Traveling
When traveling overseas, do not place your camera in the check-in baggage. Baggage can be subjected to violent shocks, and the camera may be damaged inside or outside.

Notes on the Power Supply

Notes on the Battery (NP-40)

This camera uses the Rechargeable Lithium-ion Battery NP-40. Note the points below when using the rechargeable battery. Take particular care to read the Safety Notes to make sure that you use the battery correctly.



✻When shipped, the NP-40 is not fully charged. Always charge the NP-40 before using it.
- When carrying the NP-40, install it in a digital camera or keep it in the soft case.
- When storing the NP-40, place it inside the special soft case provided.

■ Battery Features
- The NP-40 gradually loses its charge even when not used. Use a NP-40 that has been charged recently (in the last day or two) to take pictures.
- To maximize the life of the NP-40, turn the camera off as quickly as possible when it is not being used.
- The number of available frames will be lower in cold locations or at low temperatures. Take along a spare fully charged NP-40.
  You can also increase the amount of power produced by putting the NP-40 in your pocket or another warm place to heat it and then loading it into the camera just before you take a picture.
  If you are using a heating pad, take care not to place the NP-40 directly against the pad. The camera may not operate if you use a depleted NP-40 in cold conditions.

■ Charging the Battery
- You can charge the battery using the camera, cradle and the AC power adapter (included).
  - The NP-40 can be charged at ambient temperatures between 0°C and +40°C (+32°F and +104°F). At an ambient temperature of +23°C (+73°F), it takes approx. 2 hours to charge a fully depleted NP-40 battery.
  - You should charge the NP-40 at an ambient temperature between +10°C and +35°C (+50°F and +95°F). If you charge the NP-40 at a temperature outside this range, charging takes longer because the performance of the NP-40 is impaired.
  - You cannot charge the NP-40 at temperatures of 0°C (+32°F) or below.
- You can also use the optional Battery Charger BC-65 to charge the NP-40. When charging, use the NP-40 battery adapter supplied with the BC-65 (Refer to the Owner's Manual for details).
  - The NP-40 can be charged using the BC-65 Battery Charger at ambient temperatures between 0°C and +40°C (+32°F and +104°F). At an ambient temperature of +23°C (+73°F), it takes approx. 95 minutes to charge a fully depleted NP-40 battery.
  - You should charge the NP-40 at an ambient temperature between +10°C and +35°C (+50°F and +95°F). If you charge the NP-40 at a temperature outside this range, charging takes longer because the performance of the NP-40 is impaired.
- The NP-40 does not need to be fully discharged or exhausted flat before being charged.
- The NP-40 may feel warm after it has been charged or immediately after being used. This is perfectly normal.
- Do not recharge a fully charged NP-40.

■ Battery Life
At normal temperatures, the NP-40 can be used at least 300 times.
If the time for which the NP-40 provides power shortens markedly, this indicates that the NP-40 has reached the end of its effective life and should be replaced.

Notes on storage
The Rechargeable Lithium-ion Battery NP-40 is both compact and capable of storing large quantities of power. However, if it is stored for long periods while charged, the performance of the battery can be impaired.
- If the battery will not be used for some time, run the battery out before storing it.
- If you do not intend to use the camera for a long period of time, remove the battery from the camera.
- Place the battery pack inside the soft case and store in a cool place.

✻The battery should be stored in a dry location with an ambient temperature between +15°C and +25°C (+59°F and +77°F).
✻Do not leave the battery in hot or extremely cold places.

■ Handling the Battery
To avoid injury or damage, observe the following:
- Do not carry or store battery with metal objects such as necklaces or hairpins.
- Do not heat the battery or throw it into a fire.
- Do not attempt to take apart or change the battery.
- Do not recharge the battery with chargers other those specified.
- Dispose of used battery promptly.

To avoid damaging the battery or shortening its life, observe the following:
- Do not drop the battery or otherwise subject it to strong impacts.
- Do not expose the battery to water.

To make sure that you obtain optimum battery performance, observe the following:
- Always keep the battery terminals clean.
- Do not store battery in warm or humid places. Storing the battery for long periods in a hot location can shorten the battery life.

If you use the battery for a long period, the camera body and the battery itself will become warm. This is normal. Use the AC power adapter supplied with the camera if you are taking pictures or viewing images for a long period of time.

■ Specifications of the included NP-40

Nominal voltage	DC 3.6 V
Nominal capacity	750 mAh
Operating temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	35.3 mm × 40 mm × 6 mm (1.39 in. × 1.6 in. × 0.24 in.) (W × H × D)
Mass (Weight)	Approx. 20 g (0.7 oz.)

AC Power Adapter

Always use the AC Power Adapter AC-5VW with the camera. The use of an AC Power adapter other than AC-5VW can be damaged to your digital camera.
- Use the AC Power Adapter for indoor use only.
- Plug the connection cord plug securely into the DC input terminal of the FUJIFILM Digital camera.
- Turn off the FUJIFILM Digital camera before disconnecting the cord from the FUJIFILM Digital camera's DC input terminal. To disconnect, pull out the plug gently. Do not pull on the cord.
- Do not use the AC power adapter with any device other than your camera.
- During use, the AC power adapter will become hot to the touch. This is normal.
- Do not take apart the AC power adapter. Doing so could be dangerous.
- Do not use the AC power adapter in a hot and humid place.
- Do not subject the AC power adapter to strong shocks.
- The AC power adapter may emit a humming. This is normal.
- If used near a radio, the AC power adapter may cause static. If this happens, move the camera away from the radio.

✻Very occasionally, DC output will be prevented by the operation of the internal protection circuit. In this event, unplug the AC power adapter AC-5VW from the power socket for a few moments and then plug it in again. This will restore DC output.

■ Specifications (AC-5VW)

Power Supply	AC 100V to 240V,50/60Hz
Rated Input Capacity	13W(U.S.A.and Canada) 0.08A to 0.2A(other countries)
Rated Output	DC 5.0V 1.5A
Temperature During Use	0°C to +40°C (+32°F to +104°F)
Dimensions (MAX.)	40 mm × 21 mm × 79 mm (1.6 in. × 0.8 in. × 3.1 in.) (W × H × D)
Mass (Weight)	Approx. 110 g (3.9 oz.) (excluding power cord)

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Notes on the xD-Picture Card™

■ Image Memory Card

- This Image Memory Card is a new image recording media (**xD-Picture Card**) developed for digital cameras. The Image Memory Card consists of a semiconductor memory (NAND-type flash memory) to record digital image data.
  The recording process is electrically performed and enables erasure of existing image data as well as re-recording of new image data.
- When using a new Memory Card, or a Memory Card that has been formatted by a PC, be sure to format the card with your digital camera before using it.

■ Protecting Your Data

- Images and movies may be lost or destroyed in the following situations. Please note that FUJIFILM assumes no responsibility for data that is lost or destroyed.
  1. Removal of the memory card or turning the power off while the memory card is being accessed (i.e., during record, erase, initialization, and playback operations).
  2. Improper handling and use of the memory card by the user or third party.
- Save your important data to another media (i.e., MO disk, CD-R, hard disk, etc.).

■ Handling xD-Picture Card

- When storing **xD-Picture Card**s, make sure that they are kept out of the reach of children. An **xD-Picture Card** could be swallowed cause suffocation. If a child swallows an **xD-Picture Card**, seek medical attention or call emergency number right away.
- When inserting the **xD-Picture Card** into the camera, hold the **xD-Picture Card** straight as you push it in.
- Do not expose an **xD-Picture Card** to shock. Do not apply pressure, and avoid bending.
- Do not use or store **xD-Picture Card** in hot and humid places.
- Clean the **xD-Picture Card** with a soft dry piece of cloth when dirty.
- When carrying or storing an **xD-Picture Card**, keep it in the special protective case.
- The **xD-Picture Card** will work well for long time, but will sooner or later lose its ability to store and play back images or movies. If this happens replace it with a new **xD-Picture Card**.
- Never remove the **xD-Picture Card** or turn the camera off during data recording or erasing (**xD-Picture Card** formatting) as this could be damaged to the **xD-Picture Card**.
- The use of **xD-Picture Card**s is recommended with the FinePix Z1.
  The recording quality cannot be guaranteed when **xD-Picture Card**s other than those manufactured by FUJIFILM are used.
- The **xD-Picture Card** may feel warm when it is removed from the camera after taking pictures. This is normal.
- Do not put labels on the **xD-Picture Card**. Peeling labels can cause the camera not to work properly.

■ Using xD-Picture Card with a PC

- When taking pictures using an **xD-Picture Card** that has been used on a PC, reformat the **xD-Picture Card** using your camera for best quality.
- When formatting an **xD-Picture Card**, a directory (folder) is created. Image data is then recorded in this directory.
- Do not change or delete the directory (folder) or file names on the **xD-Picture Card** because this will make it impossible to use the **xD-Picture Card** in your camera.
- Always use the camera to erase image data on an **xD-Picture Card**.
- To edit image data, copy the image data to the PC and edit the copy.

■ Specifications

Type	Image memory card for digital cameras (**xD-Picture Card**)
Memory type	NAND-type flash memory
Conditions for use	Temperature: 0°C to +40°C (+32°F to +104°F) Humidity: 80% max. (no condensation)
Dimensions	25 mm × 20 mm × 2.2 mm (0.98 in. × 0.79 in. × 0.09 in.) (W × H × D)

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Warning Displays

▶The table below lists the warnings that are displayed on the LCD monitor.

Warning Displayed	Explanation	Remedy
(Lit red) (Blinking red)	The camera battery is low or completely out of charge.	Load a new or fully charged battery.
	There is a strong likelihood of camera shake because the shutter speed is slow.	Use flash photography. However, place the camera on a stable surface for some scenes and modes.
!AF	The AF (autofocus) cannot work effectively.	• If the image is too dark, take the picture at a distance of around 2 m (6.6 ft.) from the subject. • Use AF lock to take the picture.
!AE	Outside the AE continuous range.	The picture can be taken, but the correct brightness (exposure) will not be obtained.
FOCUS ERROR **ZOOM ERROR**	Camera malfunction or fault.	• Turn the camera on again, taking care not to touch the lens. • Turn the camera off and on again. If the message still appears, contact your FUJIFILM dealer.
NO CARD	No **xD-Picture Card** is inserted.	Insert an **xD-Picture Card**.
CARD NOT INITIALIZED	• The **xD-Picture Card** is not formatted. • The **xD-Picture Card** contact area is soiled. • Camera fault.	• Format the **xD-Picture Card** on the camera. • Wipe the contact area on the **xD-Picture Card** with a soft dry cloth. It may be necessary to format the **xD-Picture Card**. If the message still appears, replace the **xD-Picture Card**. • Contact your FUJIFILM dealer.
CARD ERROR	• The **xD-Picture Card** contact area is soiled. • The **xD-Picture Card** is damaged. • The **xD-Picture Card** format is incorrect. • Camera fault.	• Wipe the contact area on the **xD-Picture Card** with a soft dry cloth. It may be necessary to format the **xD-Picture Card**. If the message still appears, replace the **xD-Picture Card**. • Contact your FUJIFILM dealer.
CARD FULL	The **xD-Picture Card** is full.	Erase some images or use an **xD-Picture Card** that has ample free space.
WRITE ERROR	• The data could not be recorded due to an **xD-Picture Card** error or a connection error between the **xD-Picture Card** and camera. • The image cannot be recorded as it is too large to fit in the available space on the **xD-Picture Card**.	• Re-insert the **xD-Picture Card** or turn the camera off and then on again. If the message still appears, contact your FUJIFILM dealer. • Use a new **xD-Picture Card**.
BUSY	The timing for recording was incorrect because the **xD-Picture Card** was formatted on a PC.	Use an **xD-Picture Card** that was formatted on the camera.
FRAME NO. FULL	The frame number has reached 999-9999.	① Insert a formatted **xD-Picture Card** into the camera. ② Set "RENEW" as the FRAME NO. setting in the "SET" SET-UP menu. ③ Start taking pictures (The frame number starts from "100-0001"). ④ Set "CONT." as the FRAME NO. setting in the "SET" SET-UP menu.
READ ERROR	• The played back file was not recorded correctly. • The **xD-Picture Card** contact area is soiled. • Camera fault. • An attempt was made to play a movie or display an image that was not recorded on this camera.	• Images cannot be played back. • Wipe the contact area on the **xD-Picture Card** with a soft dry cloth. It may be necessary to format the **xD-Picture Card**. If the message still appears, replace the **xD-Picture Card**. • Contact your FUJIFILM dealer. • Movies cannot be played back.

Warning Displays

Warning Displayed	Explanation	Remedy
TOO MANY FRAMES	An attempt was made to show 5,000 or more images by date sorting.	No more than 4,999 images can be shown by date sorting.
PROTECTED FRAME	• A protected file was encountered. • An attempt was made to add a voice memo to protected file.	• Protected files cannot be erased. Remove the protection. • Protected files cannot be added to voice memos. Remove the protection.
ERROR	• The voice memo file is faulty. • Camera fault.	• The voice memo cannot be played back. • Contact your FUJIFILM dealer.
03M CAN NOT TRIM	An attempt was made to trim a 0.3M image.	The image cannot be trimmed.
CAN NOT TRIM	• An attempt was made to trim an image shot using a camera other than FinePix Z1. • The image is damaged.	The image cannot be trimmed.
DPOF FILE ERROR	Prints were specified for 1000 or more frames in the DPOF frame settings.	The maximum number of frames for which prints can be specified on the same **xD-Picture Card** is 999. Copy the images for which you want to order prints onto another **xD-Picture Card** and then specify the DPOF settings.
CAN NOT SET DPOF	An attempt was made to specify DPOF settings for an image that is not supported by DPOF.	DPOF printing cannot be used with this image format.
COMMUNICATION ERROR	The camera is not connected to a PC or printer.	• Check that the USB cable (mini-B) is connected correctly. • Check that your printer is turned on.
PRINTER ERROR	Displayed for PictBridge.	• Check that the printer is not out of paper or out of ink. • Turn the printer off briefly and then turn it back on. • Refer to the user manual supplied with your printer.
PRINTER ERROR RESUME?	Displayed for PictBridge.	Check that the printer is not out of paper or out of ink. Printing automatically restarts when the error is cleared. If the message still appears after checking, press the "MENU/OK" button to restart printing.
CANNOT BE PRINTED	Displayed for PictBridge.	• Refer to the user manual for the printer being used and check whether the printer supports the JFIF-JPEG or Exif-JPEG image format. If not, the printer cannot print the images. • Movie images cannot be printed. • Was the image data photographed using FinePix Z1? You may not be able to print some images photographed on other cameras.
PRINTING	Displayed for PictBridge.	This message appears when printing is performed from a FUJIFILM printer that supports PictBridge. Refer to the Owner's Manual for the printer for details.

Troubleshooting

▶If you think the camera is faulty, check the following once more.

Troubleshooting	Possible causes	Solutions
The indicator lamp does not light when charging the battery.	• There is no battery in the camera. • The camera, AC power adapter and cradle are not connected correctly.	• Load the battery. • Connect the camera and AC power adapter correctly.
The indicator lamp blinks during charging and the battery won't charge.	• The battery terminals are dirty. • The battery can no longer be recharged.	• Take the battery out briefly and then reload it. • Wipe the battery terminals with a clean, dry cloth. • Load a new or fully charged battery. If the battery still fails to charge, contact your FUJIFILM dealer.
No power.	• The battery has run out. • The AC power adapter plug has come out of the power outlet. • The battery is loaded backward. • The battery cover is not closed correctly.	• Load a new or fully charged battery. • Plug the adapter back in. • Load the battery in the correct direction. • Close the battery cover correctly.
Power cuts out during operation.	The battery has run out.	Load a new or fully charged battery.
Battery runs out quickly.	• Camera is used in extremely cold conditions. • The terminals are soiled. • The battery can no longer be recharged.	• Put the battery in your pocket or another warm place to heat it and then load it into the camera just before you take a picture. • Wipe the battery terminals with a clean, dry cloth. • Load a new or fully charged battery.
No photograph is taken when pressing the shutter button.	• No **xD-Picture Card** is inserted. • The **xD-Picture Card** is full. • The **xD-Picture Card** is not formatted. • The **xD-Picture Card** contact area is soiled. • The **xD-Picture Card** is damaged. • The Auto power off function has turned the camera off. • The battery has run out.	• Insert an **xD-Picture Card**. • Insert a new **xD-Picture Card** or erase some unwanted frames. • Format the **xD-Picture Card** on the camera. • Wipe the **xD-Picture Card** contact area with a clean dry cloth. • Insert a new **xD-Picture Card**. • Turn the camera on. • Load a new or fully charged battery.
Can't use the flash.	• The shutter button was pressed while the flash was charging. • Photography mode is set to "N" NATURAL LIGHT, "▲" LANDSCAPE.	• Wait until the charging is completed before pressing the shutter button. • Change the Photography mode.
The flash settings are restricted and cannot be selected.	The Photography mode is set to "AUTO", "N", "▲", "🌷" or "☾".	The flash settings are restricted because the camera settings are tailored to the scene being shot. Change the Photography mode for a wider range of flash settings.
The playback image is dark even though the flash was used.	• The subject is too far away. • Your finger was covering the flash.	• Move to within the effective flash range before taking the picture. • Hold the camera correctly.
The image is blurred.	• The lens is dirty. • You photographed scenery with Macro mode selected. • You took a close-up shot without selecting Macro mode. • You are shooting a subject that is not suited to autofocusing.	• Clean the lens. • Cancel Macro mode. • Select Macro mode. • Use AF/AE lock to take the picture.
There is speckling on the image.	The picture was taken with a slow shutter speed (long exposure) in a high-temperature environment.	This is a characteristic of CCDs and does not indicate a camera fault.
The camera does not emit any sound.	• The camera volume is set too low. • The microphone was blocked during shooting/recording. • There is something covering the speaker during playback.	• Adjust the volume. • Take care not to block the microphone during shooting/recording. • Make sure that the speaker is uncovered.

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Troubleshooting

Troubleshooting	Possible causes	Solutions
Frame erase does not erase the frame.	Some frames may be protected.	Unprotect frames using the camera on which the protection was first applied.
The ERASE ALL function does not erase all the frames.		
Screens are not displayed in English.	A language other than English is selected in the "言語/LANG." setting in the "SET" SET-UP menu (➡P.74).	①Press the "MENU/OK" button to display the menu. ②Press "▲" or "▼" to select "SET" SET-UP and press "▶". ③Press "▲" or "▼" to select "言語/LANG.". ④Press "▶". ⑤Press "▲" or "▼" several times to select "ENGLISH". ⑥Press the "MENU/OK" button.
There is no image or sound on the TV.	• The included A/V cable was connected during movie playback. • The camera is not connected to the TV correctly. • "TV" is selected as the TV input. • The video output setting is incorrect. • The TV volume is turned down.	• After the movie playback mode is stopped, connect the camera and TV correctly. • Connect the camera and TV correctly. • Set the TV input to "VIDEO". • Change the setting to "NTSC" or "PAL" (➡P.74). • Adjust the volume.
The TV image is black and white.	The video output setting is incorrect.	Change the setting to "NTSC" or "PAL" (➡P.74).
When connecting the camera to a PC, the photographed image or playback image appears on the camera's LCD monitor.	• The USB cable (mini-B) is not correctly connected to the PC or cradle. • The PC is not turned on.	• Set up the camera, and connect the USB cable (mini-B) correctly. • Turn the PC on.
Nothing happens when using the Mode switch.	• Camera malfunction. • The battery has run out.	• Briefly remove the battery or disconnect the AC power adapter and cradle. Then reload the battery, or reconnect the AC power adapter and cradle, and try again. • Load a new or fully charged battery.
The camera no longer works correctly.	The camera has suffered an unforeseen problem.	Briefly remove the battery or disconnect the AC power adapter and cradle. Then reload the battery, or reconnect the AC power adapter and cradle, and try again. If the message still appears, contact your FUJIFILM dealer.
Can't print with PictBridge.	"⇋" is not selected in USB mode in the "SET" SET-UP menu.	Select "⇋" in USB mode in the "SET" SET-UP menu.
The camera was connected to a PC when the USB mode was set to "⇋".		Perform steps ① to ③ to remove the camera from the PC. ● **Windows** ① The "Found New Hardware" wizard or "Scanner and Camera" wizard appears. If the wizard does not appear, proceed to step ③. ② Click the [Cancel] button. ③ Disconnect the camera from the PC. ● **Macintosh** ① The window for locating the driver appears. If the window does not appear, proceed to step ③. ② Click the [Cancel] button. ③ Disconnect the camera from the Macintosh.

Specifications

System

Model	Digital camera FinePix Z1
Effective pixels	5.1 million pixels
CCD	1/2.5-inch Super CCD HR Number of total pixels: 5.22 million pixels
Storage media	**xD-Picture Card** (16/32/64/128/256/512 MB/1 GB)
File format	Still image: DCF-compliant Compressed: Exif ver.2.2 JPEG, DPOF-compatible ✻ Design rule for Camera File System compliant DPOF compatible Movie: AVI format, Motion JPEG Audio: WAVE format, Monaural sound
Number of recorded pixels	Still image: 2592 × 1944 pixels/2736 × 1824 pixels/2048 × 1536 pixels/ 1600 × 1200 pixels/640 × 480 pixels (5M/3:2/3M/2M/0.3M)
Lens	Fujinon 3× optical zoom lens F3.5-F4.2
Focal length	f=6.1 mm-18.3 mm (Equivalent to approx. 36 mm-108 mm on a 35 mm camera) (3:2: Equivalent to approx. 38 mm-114 mm on a 35 mm camera)
Digital zoom	Approx. 5.7× (3× optical zoom lens is used together: Max. zoom scale: 17.1×)
Aperture (Wide-angle)	F3.5/F5/F8 3 steps
Focal range	Normal: approx. 60 cm (2.0ft.) to infinity Macro: approx. 8 cm (3.1 in.) to 80 cm (2.6 ft.) (wide-angle) approx. 45 cm (1.5 ft.) to 80 cm (2.6 ft.) (telephoto)
Sensitivity	AUTO/Equivalent to ISO 64/100/200/400/800
Photometry	TTL 64-zones metering
Exposure control	Program AE
Scene position	(NATURAL LIGHT), (PORTRAIT), (LANDSCAPE), (SPORT), (NIGHT)
Exposure compensation	–2 EV to +2 EV in 1/3 EV-step increments (M)
Shutter speed	4 sec. to 1/1000 sec. (depend on Exposure mode)
Focus	Mode: Auto focus AF system: TTL contrast-type AF frame selection: AF (CENTER), AF (MULTI)
White balance	Automatic scene recognition/Preset (Fine, Shade, Fluorescent (Daylight), Fluorescent (Warm White), Fluorescent (Cool White), Incandescent)
Self-timer	Approx. 10 sec./2 sec.
Flash type	Auto flash Effective range (AUTO): Wide-angle: approx. 30 cm-3 m (1.0 ft.-9.8 ft.) Telephoto: approx. 60 cm-2.3 m (2.0 ft.-7.5 ft.)
Flash mode	Auto, Red-Eye Reduction, Forced Flash, Suppressed Flash, Slow Synchro, Red-Eye Reduction + Slow Synchro
LCD monitor	2.5 inches, Aspect ratio: 4:3; approx. 115,000 pixels Amorphous silicon TFT, Approx. 100% coverage
Movie	640 × 480 pixels/320 × 240 pixels (640/320) (30 frames per second with monaural sound) A series of continuous image can be recorded up to available recording time per **xD-Picture Card**. Zoom cannot be used during movie recording.
Photography functions	High-speed shooting, Best framing, Post shot assist window, Frame No. memory
Playback functions	Trimming, Image rotate, Automatic playback, Multi-frame playback, Sorting by date, Voice memo
Other functions	PictBridge, Exif print, PRINT Image Matching II, Language (English, Francais, Deutsch, Español, Italiano, 中文, 한글), World time (Time difference), FinePix photo mode (F-mode)

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Specifications

Input/Output Terminal

A/V OUT (Audio/Visual output)	NTSC/PAL-type (with monaural sound, connection via cradle)
Digital input/output	USB2.0 High-Speed (connection via cradle)
DC input socket	AC Power Adapter AC-5VW (included)/AC-5VX (sold separately) (connection via cradle)

Power Supply and Others

Power supply

Use one of the following
• Rechargeable Battery NP-40

Guide to the number of available frames for battery operation

Battery Type	Number of frames
NP-40 (750 mAh)	Approx. 170

According to the CIPA (Camera & Imaging Products Association) standard procedure for measuring digital still camera battery consumption (extract):
When using a battery, use the battery supplied with the camera. The storage media should be **xD-Picture Card**.
Pictures should be taken at a temperature of +23°C (+73°F), with the LCD monitor turned on, the optical zoom moved from full wide-angle to full telephoto (or vice-versa) and back again to its original position every 30 seconds, the flash used at full power every second shot and the camera turned off and then on again once every 10 shots.
• Note: As the number of available shots varies depending on the level of charge in battery, the figures shown here for the number of available shots using battery is not guaranteed. The number of available shots will also decline at low temperatures.

Camera dimensions (W/H/D)	90.0 mm × 55.0 mm × 18.6 mm/3.5 in. × 2.2 in. × 0.7 in. (not including accessories and attachments)
Camera mass (weight)	Approx. 130 g/4.6 oz. (not including accessories, battery and **xD-Picture Card**)
Weight for photography	Approx. 150 g/5.3 oz. (including battery and **xD-Picture Card**)
Operating conditions	Temperature: 0°C to +40°C (+32°F to +104°F) 80% humidity or less (no condensation)

Cradle

Cradle dimensions (W/H/D)	98.8 mm × 23.2 mm × 40.4 mm/3.9 in. × 0.9 in. × 1.6 in.
Cradle mass (weight)	Approx. 42 g/1.5 oz.

■ Standard number of available frames/recording time per xD-Picture Card

The number of available frames, recording time or file size varies slightly depending on the subjects photographed. Note also that the divergence between standard number of frames and the actual number of frames is greater for **xD-Picture Card**s with higher capacities.

Quality setting	5M F	5M N	3:2	3M	2M	03M	640 (30 fps)	320 (30 fps)
Number of recorded pixels	2592 × 1944		2736 × 1824	2048 × 1536	1600 × 1200	640 × 480	640 × 480	320 × 240
Image data size	2.5 MB	1.3 MB	1.3 MB	780 KB	630 KB	130 KB	–	–
DPC-16 (16 MB)	6	12	12	19	25	122	13 sec.	26 sec.
DPC-32 (32 MB)	12	25	25	40	50	247	27 sec.	54 sec.
DPC-64 (64 MB)	25	50	51	81	101	497	55 sec.	109 sec.
DPC-128 (128 MB)	51	102	103	162	204	997	111 sec.	219 sec.
DPC-256 (256 MB)	102	204	207	325	409	1997	223 sec.	7.3 min.
DPC-512/M512 (512 MB)	205	409	414	651	818	3993	7.4 min.	14.6 min.
DPC-M1GB (1 GB)	412	819	830	1305	1639	7995	14.9 min.	29.3 min.

✻ These specifications are subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this Owner's Manual.
✻ The LCD monitor on your digital camera is manufactured using advanced high-precision technology. Even so, small bright points and anomalous colors (particularly around text) may appear on the monitor. These are normal display characteristics and do not indicate a fault with the monitor. This phenomenon will not appear on the recorded image.
✻ The operation error may be caused in a digital camera by the strong radio interference (i. e. electric fields, static electricity, line noise, etc.).
✻ Due to the nature of the lens, the edges of images may appear distorted. This is normal.

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Explanation of Terms

EV
A number denotes Exposure Value. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed.
When the amount of light striking the CCD doubles, the EV increases by 1. Likewise, when the light is halved, the EV decreases by 1.

Frame rate (fps)
The frame rate refers to the number of images (frames) that are photographed or played back per second. For example, when 10 frames are continuously photographed in a 1-second interval, the frame rate is expressed as 10 fps.
For reference, TV images are displayed at 30 fps (NTSC).

JPEG
Joint Photographic Experts Group
A file format used for compressing and saving color images. The higher the compression rate, the greater the loss of quality in the decompressed (restored) image.

Motion JPEG
A type of AVI (Audio Video Interleave) file format that handles images and sound as a single file. Images in the file are recorded in JPEG format. Motion JPEG can be played back by QuickTime 3.0 or later.

Smear
A phenomenon specific to CCDs whereby white streaks appear on the image when there is a very strong light source, such as the sun or reflected sunlight, in the photography screen.

WAVE
A standard format used on Windows systems for saving audio data. WAVE files have the ".WAV" file extension and the data can be saved in either compressed or uncompressed format. Uncompressed recording is used on this camera.
WAVE files can be played back on a personal computer using the following software:
Windows: MediaPlayer
Macintosh: QuickTime Player
✻ QuickTime 3.0 or later

White Balance
Whatever the kind of the light, the human eye adapts to it so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the color balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance.

Exif Print
Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

Safety Notes

- Make sure that you use your FinePix Z1 camera correctly. Read these Safety Notes and your Owner's Manual carefully before use.
- After reading these Safety Notes, store them in a safe place.

About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

⚠ WARNING	**This icon indicates that death or serious injury can result if the information is ignored.**
⚠ CAUTION	**This icon indicates that personal injury or material damage can result if the information is ignored.**

The icons shown below are used to indicate the nature of the information which is to be observed.

Triangular icons tell you that this information requires attention ("important").

Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").

Filled circles with an exclamation mark tell you an action that must be performed ("Required").

⚠ WARNING

If a problem arises, turn the camera off, remove the battery, disconnect and unplug the AC power adapter.
Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock.
- Contact your FUJIFILM dealer.

Unplug from power socket.

Do not allow water or foreign objects to enter the camera.
If water or foreign objects get inside the camera, turn the camera off, remove the battery and disconnect and unplug the AC power adapter.
Continued use of the camera can cause a fire or electric shock.
- Contact your FUJIFILM dealer.

Do not use the camera in the bathroom or shower.
This can cause a fire or electric shock.

Do not use in the bathroom or shower.

Never attempt to change or take apart the camera. (Never open the casing.)
Do not use the camera when it has been dropped or the casing is damaged.
This can cause a fire or electric shock.
- Contact your FUJIFILM dealer.

Do not disassemble.

Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.
These actions could damage the cord and cause a fire or electric shock.
- If the cord is damaged, contact your FUJIFILM dealer.

Do not place the camera on an unstable surface.
This can cause the camera to fall or tip over and cause injury.

Never attempt to take pictures while in motion.
Do not use the camera while you are walking or driving a vehicle.
This can result in you falling down or being involved in a traffic accident.

Do not touch any metal parts of the camera during a thunderstorm.
This can cause an electric shock due to induced current from the lightning discharge.

Do not use the battery except as specified.
Load the battery as aligned with the indicator.

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⚠ WARNING

Do not heat, change or take apart the battery.
Do not drop or subject the battery to impacts.
Do not store the battery with metallic products.
Do not use chargers other than the specified model to charge the battery.
Any of these actions can cause the battery to burst or leak and cause fire or injury as a result.

Use only the battery or AC power adapters specified for use with this camera.
Do not use voltages other than the power supply voltage shown.
The use of other power sources can cause a fire.

If the battery leaks and fluid gets in contact with your eyes, skin or clothing. Flush the affected area with clean water and seek medical attention or call an emergency number right away.

Do not use the charger to charge battery other than those specified here.
The charger is designed for NP-40 Rechargeable Battery. Using the charger to charge conventional battery or other types of rechargeable battery can cause the battery to leak fluid, overheat or burst.

When carrying the NP-40, install it in a digital camera or keep it in the hard case.
When storing the NP-40, keep it in the hard case provided.
When discarding, cover the battery terminals with insulation tape.
- Contact with other metallic objects or battery could cause the battery to ignite or burst.

Keep xD-Picture Cards out of the reach of small children.
Because **xD-Picture Card**s are small, they can be swallowed by children. Be sure to store **xD-Picture Card**s out of the reach of small children. If a child swallows an **xD-Picture Card**, seek medical attention or call an emergency number.

⚠ CAUTION

Do not use this camera in locations affected by oil fumes, steam, humidity or dust.
This can cause a fire or electric shock.

Do not leave this camera in places subject to extremely high temperatures.
Do not leave the camera in locations such as a sealed vehicle or in direct sunlight.
This can cause a fire.

Keep out of the reach of small children.
This product could cause injury in the hands of a child.

⚠ CAUTION

Do not place heavy objects on the camera.
This can cause the heavy object to tip over or fall and cause injury.

Do not move the camera while the AC power adapter is still connected.
Do not pull on the connection cord to disconnect the AC power adapter.
This can damage the power cord or cables and cause a fire or electric shock.

Do not use the AC power adapter when the plug is damaged or the plug socket connection is loose.
This could cause a fire or electric shock.

Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.
This can cause heat to build up and distort the casing or cause a fire.

When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect and unplug the AC power adapter.
Failure to do so can cause a fire or electric shock.

When charging ends, unplug the charger from the power socket.
Leaving the charger plugged into the power socket can cause a fire.

Using a flash too close to a person's eyes may temporarily affect their eyesight.
Take particular care when taking pictures of children.

When an xD-Picture Card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.

Request regular internal testing and cleaning for your camera.
Build-up of dust in your camera can cause a fire or electric shock.
- Contact your FUJIFILM dealer to request internal cleaning every 2 years.
- Please note this is not a free of charge service.

Do not sit down putting the camera into a trousers pocket etc.
When putting the camera into a bag, keep it in the special protective case.
Do not place heavy objects on the camera.
Do not leave the camera on the place such as floor. When storing the camera, keep it in the special protective case. It prevents subjecting the camera to strong shocks.
- Any of these actions can cause an unexpected injury by broken reinforced glass.
- Be careful of glass splinter if the LCD monitor is broken. When the camera suffers damage, put the camera into a plastic bag and take in it to your FUJIFILM dealer.

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